

Complete Power Solution



POWERCOM UPS

Your safety-guard is always here



About POWRCOM



POWERCOM was founded in 1987, and is specialized specialist on Uninterruptible Power Supply (UPS) and protection power supply design and manufacture. The mission of POWERCOM is to provide Safe, High Quality and Reliable product to meet the demand with efficient power supply!

POWERCOM powerful R&D team focus on precise and innovation production research and design. POWERCOM produce Uninterruptible Power Supply (UPS), with wide range of application on Telecom, Medical, Industrial, Enterprise and Individual PCs and communication network. POWERCOM compact produce process coporate with flexible advanced system application, offers the best suit of customer requirement. In 1996, POWERCOM earned ISO 9001, ISO 14001, Awards of Golden Plaza of National Excellent Electrical Equipment and international certification recognized. In the 31 years manufacture experience, POWERCOM are driving on the way to deliver Safe, Reliable and High Quality production offer the best customer value.

Powercom Empower Your Life!

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WOW Series

Impressive outfit to fit in your workshop, studio and home.

- Offline UPS Design
- Energy Saving Green Topology
- Advance Battery Management (ABM)
- Advance Digital Microprocessor Control
- UPSMON Monitor Management
- Overload, Surge, Short Circuit Protection



Specifications

Model	WOW-300S WOW-300U	WOW-500S WOW-500U	WOW-700S WOW-700U	WOW-850S WOW-850U	WOW-1000S WOW-1000U
Configuration					
Capacity (VA)	300 VA	500 VA	700 VA	850 VA	1000 VA
Capacity (Watts)	165 W	250 W	350 W	425 W	500 W
Form	Office Type				
Input					
Voltage	100 / 110 / 115 / 120 VAC or 220 / 230 / 240 VAC				
Input Voltage Range	85 - 138 or 165 - 276 VAC				
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)				
Output					
Waveform	Simulated Sine Wave				
Voltage	100 / 110 / 115 / 120 VAC or 220 / 230 / 240 VAC				
Frequency	50 Hz / 60 Hz ± 0.5 Hz				
Transfer Time	2 - 4 ms (Typical)				
Protection					
Full Protection	Overload, Surge, Short Circuit				
Tel Communication	RJ11 / RJ45				
Battery					
Type	6V 5Ah	12V 3.3Ah	12V 4Ah	12V 7.2Ah	12V 9Ah
Quantity	1	1	1	1	1
Sealed, Maintenance Free	Yes				
Typical Recharge Time	8 hr to 90%				
Management & Communication					
Indicator	LED Panel				
Communication Port	RS232 : S model USB B type : U model				
Physical					
Dimensions (WxDxH) (mm)	100 x 315 x 68	110 x 330 x 82		120 x 410 x 85	
Weight (kgs)	1.7	2.5	2.6	3.8	4
Shipping Dimensions (mm)	162 x 417 x 102	187 x 447 x 140		187 x 516 x 158	
Shipping Weight (kgs)	2.1	2.9	3	4.4	4.7
Alarm					
Overload / Fault	Continuous Beeping				
Battery Mode	Beep every 4 seconds				
Low Battery	Beep every 0.5 second				
Environment					
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)				
Audible Noise	Less than 40 dB				

* Specifications are subject to change without further notice.

* Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



● **Off-Line UPS**

CUBE Series

Compact size with multi-socket for continuous power supply.

- Offline UPS Design
- Energy Saving Green Topology
- Wall Mounting Design
- Advance Battery Management (ABM)
- Overload, Surge, Short Circuit Protection



CUB-450-1000E/N

Specifications

Model	CUB-450E CUB-450N	CUB-650E CUB-650N	CUB-850E CUB-850N	CUB-1000E CUB-1000N
Configuration				
Capacity (VA)	450 VA	650 VA	850 VA	1000 VA
Capacity (Watts)	270 W	390 W	510 W	550 W
Form	Office Type			
Input				
Voltage	220 / 230 / 240 VAC			
Input Voltage Range	165 - 276 VAC			
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)			
Output				
Waveform	Simulated Sine Wave			
Voltage	220 / 230 / 240 VAC			
Frequency	50 Hz / 60 Hz ± 0.5 Hz			
Transfer Time	2 - 4 ms (Typical)			
Protection				
Full Protection	Overload, Surge, Short Circuit			
Tel Communication	RJ11 / RJ45 : E model			
Battery				
Type	12V 7Ah	12V 7.2Ah	12V 9Ah	
Quantity	1		1	
Sealed, Maintenance Free	Yes			
Typical Recharge Time	8 hr to 90%			
Management & Communication				
Indicator	LED Panel, LCD Panel (Option)			
Communication Port	USB B type : E model			
Physical				
Dimensions (WxDxH) (mm)	245 x 160 x 125			
Weight (kgs)	3.5	3.7	3.9	3.9
Shipping Dimensions (mm)	312 x 174 x 238			
Shipping Weight (kgs)	3.9	4	4.3	4.3
Alarm				
Overload / Fault	Continuous Beeping			
Battery Mode	Beep every 4 seconds			
Low Battery	Beep every 0.5 second			
Environment				
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)			
Audible Noise	Less than 40 dB			

- * N series without tel communication, USB port.
- * Specifications are subject to change without further notice.
- * Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



SPIDER-E/N Series

Tri-direction mounting series suitable for home and workstation.

- Offline UPS Design
- Energy Saving Green Topology
- Tri-direction Hanger Flexibility
- Cold Start Function
- UPSMON Monitor Management
- Overload, Surge, Short Circuit Protection



SPD-450-1000E/N

Specifications

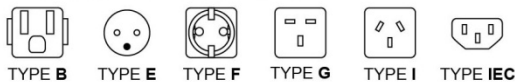
Model	SPD-450E SPD-450N	SPD-650E SPD-650N	SPD-850E SPD-850N	SPD-1000E SPD-1000N
Configuration				
Capacity (VA)	450 VA	650 VA	850 VA	1000 VA
Capacity (Watts)	270 W	390 W	510 W	550 W
Form	Office Type			
Input				
Voltage	220 / 230 / 240 VAC			
Input Voltage Range	165 - 276 VAC			
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)			
Output				
Waveform	Simulated Sine Wave			
Voltage	220 / 230 / 240 VAC			
Frequency	50 Hz / 60 Hz ± 0.5 Hz			
Transfer Time	2 - 4 ms (Typical)			
Protection				
Full Protection	Overload, Surge, Short Circuit			
Tel Communication	RJ11 / RJ45 : E model			
Battery				
Type	12V 7Ah	12V 7.2Ah	12V 9Ah	
Quantity	1		1	
Sealed, Maintenance Free	Yes			
Typical Recharge Time	8 hr to 90%			
Management & Communication				
Indicator	LED Panel, LCD Panel (Option)			
Communication Port	USB B type : E model			
Physical				
Dimensions (WxDxH) (mm)	232 x 285 x 103			
Weight (kgs)	3.8	3.8	4.2	4.3
Shipping Dimensions (mm)	302 x 354 x 176			
Shipping Weight (kgs)	4.4	4.4	4.9	5
Alarm				
Overload / Fault	Continuous Beeping			
Battery Mode	Beep every 4 seconds			
Low Battery	Beep every 0.5 second			
Environment				
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)			
Audible Noise	Less than 40 dB			

* N series without tel communication, USB

* Specifications are subject to change without further notice.

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OUTPUT RECEPTACLE OPTION



● Line Interactive **STEPWAVE UPS**

SPIDER-U Series

Spider like multiple socket for home and office application.

- Line Interactive UPS Design
- Energy Saving Green Topology
- Tri-direction Hanger Flexibility
- Cold Start Function
- Overload, Surge, Short Circuit Protection



SPD-650-1000U

Specifications

Model	SPD-650U	SPD-850U	SPD-1000U
Configuration			
Capacity (VA)	650 VA	850 VA	1000 VA
Capacity (Watts)	390 W	510 W	550 W
Form	Office Type		
Input			
Voltage	220 / 230 / 240 VAC		
Input Voltage Range	140 - 300 VAC		
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)		
Output			
Waveform	Simulated Sine Wave		
Voltage	220 / 230 / 240 VAC		
Frequency	50 Hz / 60 Hz ± 0.5 Hz		
Transfer Time	2 - 4 ms (Typical)		
Protection			
Full Protection	Overload, Surge, Short Circuit		
Tel Communication	RJ11 / RJ45 : U model		
Battery			
Type	12V 7.2Ah	12V 9Ah	
Quantity	1	1	
Sealed, Maintenance Free	Yes		
Typical Recharge Time	8 hr to 90%		
Management & Communication			
Indicator	LED Panel, LCD Panel (Option)		
Communication Port	USB B type : U model		
Physical			
Dimensions (WxDxH) (mm)	232 x 285 x 103		
Weight (kgs)	7	7.7	7.7
Shipping Dimensions (mm)	302 x 354 x 176		
Shipping Weight (kgs)	7.5	8.2	8.2
Alarm			
Overload / Fault	Continuous Beeping		
Battery Mode	Beep every 4 seconds		
Low Battery	Beep every 0.5 second		
Environment			
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)		
Audible Noise	Less than 40 dB		

* N series without tel communication, USB

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OUTPUT RECEPTACLE OPTION



TYPE B



TYPE E



TYPE F



TYPE G



TYPE I



TYPE IEC

RAPTOR Series

Sharp eagle eyes appearance protect PC and workstation accurately.

- Line Interactive UPS Design
- Energy Saving Green Topology
- Automatic Voltage Regulator (AVR)
- Simple and Clear LCD Indicator (Option)
- Automatic Self-Diagnose and Alarm Warning
- Overload, Surge, Short Circuit Protection



RPT-600-1000A/AP

RPT-1025-2000AP

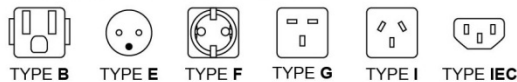
Specifications

Model	RPT-600A RPT-600AP	RPT-800A RPT-800AP	RPT-1000A RPT-1000AP	RPT-1025AP	RPT-1500AP	RPT-2000AP
Configuration						
Capacity (VA)	600 VA	800 VA	1000 VA	1025 VA	1500 VA	2000 VA
Capacity (Watts)	360 W	480 W	600 W	615 W	900 W	1200 W
Form	Tower Type					
Input						
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC					
Input Voltage Range	75 - 150 or 165 - 300 VAC					
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)					
Output						
Waveform	Simulated Sine Wave					
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC					
Frequency	50 Hz / 60 Hz ± 1 Hz					
Transfer Time	2 - 4 ms (Typical)					
Protection						
Full Protection	Overload, Surge, Short Circuit					
Tel Communication	RJ11 / RJ45 : AP model					
Battery						
Type	12V 7Ah	12V 7.2Ah	12V 9Ah	12V 7Ah	12V 7.2Ah	12V 9Ah
Quantity	1	1	1	2	2	2
Sealed, Maintenance Free	Yes					
Typical Recharge Time	3-4 hr to 90%					
Management & Communication						
Indicator	LED Panel, LCD Panel (Option)					
Communication Port	USB B type : AP Model					
Physical						
Dimensions (WxDxH)(mm)	100 x 278 x 143			147 x 360 x 164		
Weight (kgs)	4.3	4.8	5.4	8.5	10.1	11.1
Shipping Dimensions(mm)	329 x 147 x 227			449 x 233 x 277		
Shipping Weight (kgs)	4.8	5.3	5.9	9.7	11.3	12.3
Alarm						
Overload / Fault	Continuous Beeping					
Battery Mode	Beep every 2 seconds					
Low Battery	Beep every 0.5 second					
Environment						
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)					
Audible Noise	Less than 40 dB					

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OUTPUT RECEPTACLE OPTION



IMPERIAL Series

High quality output plus elegant design protect PC and workstation.

- Line Interactive UPS Design
- Energy Saving Green Topology
- Automatic Voltage Regulator (AVR)
- Advance Digital Microprocessor Control
- Simple and Clear Digital Indicator (IMD model)
- Overload, Surge, Short Circuit Protection



IMD-425-1000A/AP

IMP-425-1000A/AP

Specifications

Model	IMP-425A/AP IMD-425A/AP	IMP-525A/AP IMD-525A/AP	IMP-625A/AP IMD-625A/AP	IMP-825A/AP IMD-825A/AP	IMP-1000A/AP IMD-1000A/AP
Configuration					
Capacity (VA)	425 VA	525 VA	625 VA	825 VA	1000 VA
Capacity (Watts)	255 W	315 W	375 W	495 W	550 W
Form	Tower Type				
Input					
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC				
Input Voltage Range	75 - 150 or 165 - 300 VAC				
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)				
Output					
Waveform	Simulated Sine Wave				
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC				
Frequency	50 Hz / 60 Hz ± 0.5 Hz				
Transfer Time	2 - 4 ms (Typical)				
Protection					
Full Protection	Overload, Surge, Short Circuit				
Tel Communication	RJ11 / RJ45 : AP model				
Battery					
Type	12V 7.2Ah			12V 9 Ah	
Quantity	1			1	
Typical Recharge Time	6-8 hr to 90%				
Management & Communication					
Indicator	LED Control Panel : IMP model Digital Control Panel : IMD model				
Communication Port	USB B type : AP model				
Physical					
Dimensions (WxDxH) (mm)	105 x 334 x 168				
Weight (kgs)	6.1	6.1	6.3	6.8	6.8
Shipping Dimensions (mm)	196 x 410 x 263				
Shipping Weight (kgs)	7.4	7.4	7.6	8.1	8.1
Alarm					
Overload / Fault	Continuous Beeping				
Battery Mode	Beep every 2 seconds				
Low Battery	Beep every 0.5 second				
Environment					
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)				
Audible Noise	Less than 40 dB				

- * IMD Series are same specification with IMP Series, but in Digital Indicator.
- * Specifications are subject to change without further notice.
- * Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



IMPERIAL Series

High quality output plus elegant design protect PC and workstation.

- Line Interactive UPS Design
- Energy Saving Green Topology
- Automatic Voltage Regulator (AVR)
- Advance Digital Microprocessor Control
- Simple and Clear Digital Indicator (IMD model)
- Overload, Surge, Short Circuit Protection



IMD-1025-3000AP

IMP-1025-3000AP

Specifications

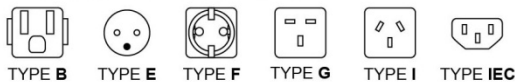
Model	IMP-1025AP IMD-1025AP	IMP-1200AP IMD-1200AP	IMP-1500AP IMD-1500AP	IMP-2000AP IMD-2000AP	IMP-3000AP IMD-3000AP
Configuration					
Capacity (VA)	1025 VA	1200 VA	1500 VA	2000 VA	3000 VA
Capacity (Watts)	615 W	720 W	900 W	1200 W	1800 W
Form	Tower Type				
Input					
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC				
Input Voltage Range	75 - 150 or 165 - 300 VAC				
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)				
Output					
Waveform	Simulated Sine Wave				
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC				
Frequency	50 Hz / 60 Hz ± 0.5 Hz				
Transfer Time	2 - 4 ms (Typical)				
Protection					
Full Protection	Overload, Surge, Short Circuit				
Tel Communication	RJ11 / RJ45 : AP model				
Battery					
Type	12V 7.2Ah		12V 9Ah		12V 9Ah
Quantity	2		2		3
Typical Recharge Time	6-8 hr to 90%				
Management & Communication					
Indicator	LED Control Panel : IMP model Digital Control Panel : IMD model				
Communication Port	USB B type : AP model				
Physical					
Dimensions (WxDxH) (mm)	130 x 382 x 200				130 x 440 x 200
Weight (kgs)	13.5	13.5	16	16.6	22
Shipping Dimensions (mm)	253 x 488 x 321				253 x 556 x 321
Shipping Weight (kgs)	15.5	15.5	18	18.6	24
Alarm					
Overload / Fault	Continuous Beeping				
Battery Mode	Beep every 2 seconds				
Low Battery	Beep every 0.5 second				
Environment					
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)				
Audible Noise	Less than 40 dB				

* IMD Series are same specification with IMP Series, but in Digital Indicator.

* Specifications are subject to change without further notice.

* Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



KING RM Series

Extremely light and thin outfit are the King of Rack Mounting UPS.

- Line Interactive UPS Design
- Advance Digital Microprocessor Control
- Advance Battery Management (ABM)
- Cold Start Function
- Built-in Fast Charger
- Overload, Surge, Short Circuit Protection



KIN-600-1000AP RM



KIN-1200-1500AP RM



KIN-2200-3000AP RM

Specifications

Model	KIN-600AP RM	KIN-1000AP RM	KIN-1200AP RM	KIN-1500AP RM	KIN-2200AP RM	KIN-3000AP RM
Configuration						
Capacity (VA)	600 VA	1000 VA	1200 VA	1500 VA	2200 VA	3000 VA
Capacity (Watts)	360 W	600 W	720 W	900 W	1320 W	1800 W
Form	Rack Type					
Input						
Voltage	100 / 110 / 115 / 120 VAC or 220 / 230 / 240 VAC					
Input Voltage Range	75 - 150 or 165 - 300 VAC					
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)					
Output						
Waveform	Simulated Sine Wave					
Voltage	100 / 110 / 115 / 120 VAC or 220 / 230 / 240 VAC					
Frequency	50 Hz / 60 Hz ± 0.5 Hz					
Transfer Time	2 - 4 ms (Typical)					
Protection						
Full Protection	Overload, Surge, Short Circuit					
Tel Communication	RJ11 / RJ45					
Battery						
Type	6V 7Ah	6V 8Ah	12V 7Ah	12V 9Ah	12V 7Ah	12V 9Ah
Quantity	2	3	2	2	4	4
Sealed, Maintenance Free	Yes					
Typical Recharge Time	8 hr to 90%					
Management & Communication						
Indicator	LED Panel					
Communication Port	RS232 or USB B type			RS232, USB B type		
Physical						
Dimensions (WxDxH)(mm)	380 x 365 x 42		428 x 357 x 84		428 x 353 x 130	428 x 486 x 130
Weight (kgs)	9.4	11.5	16.3	16.3	28.4	32.7
Shipping Dimensions (mm)	478 x 438 x 161		585 x 533 x 221		585 x 533 x 266	663 x 583 x 285
Shipping Weight (kgs)	11	13	19.3	19.3	31.1	36
Alarm						
Overload / Fault	Continuous Beeping					
Battery Mode	Beep every 2 seconds					
Low Battery	Beep every 0.5 second					
Environment						
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)					
Audible Noise	Less than 40 dB					

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 * Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



SMART RT Series

Upgraded SRT pure sinewave are the best series for home and small server.

- Line Interactive UPS Design
- Pure Sinewave Output
- Automatic Voltage Regulator (AVR)
- Hot Swappable Power Battery Design
- Advance Battery Management (ABM)
- Overload, Surge, Short Circuit Protection



SRT-1000-3000A SRT-1000-3000A LCD

Specifications

Model	SRT-1000A SRT-1000A LCD	SRT-1500A SRT-1500A LCD	SRT-2000A SRT-2000A LCD	SRT-3000A SRT-3000A LCD
Configuration				
Capacity (VA)	1000 VA	1500 VA	2000 VA	3000 VA
Capacity (Watts)	900 W	1350 W	1800 W	2700 W
Form	Rack and Tower Type			
Input				
Voltage	220 / 230 / 240 VAC			
Input Voltage Range	150 - 310 VAC			
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)			
Output				
Waveform	Pure Sine Wave			
Voltage	220 / 230 / 240 VAC			
Transfer Time	2-4 ms (Typical)			
Protection				
Full Protection	Overload, Surge, Short Circuit, EMI / RFI Filter			
Tel Communication	RJ11 / RJ45			
Battery				
Type	12V 9Ah	12V 7Ah	12V 9Ah	12V 9Ah
Quantity	2	4	4	6
Sealed, Maintenance Free	Yes			
Typical Recharge Time	3 hr to 90%			
Management & Communication				
Indicator	LED Panel			
Communication Port	RS232 , USB B type, SNMP (Option)			
Physical				
Dimensions (WxDxH) (mm)	428 x 431 x 84	428 x 562 x 84		428 x 668 x 84
Weight (kgs)	16.7	24	27.5	36.8
Shipping Dimensions (mm)	577 x 590 x 211	720 x 577 x 211		826 x 577 x 211
Shipping Weight (kgs)	20.5	27.9	31.5	41.6
Alarm				
Overload / Fault	Continuous Beeping			
Battery Mode	Beep every 4 seconds			
Low Battery	Beep every 1 second			
Environment				
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)			
Audible Noise	Less than 50 dB			

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* Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



SMART KING PRO Series

SPT/SPR series provide clean sinewave for home and small server.

- Line Interactive UPS Design
- Pure Sinewave Output
- Energy Saving Green Topology
- Automatic Voltage Regulator (AVR)
- Hot Swappable Power Battery Design
- Overload, Surge, Short Circuit Protection



Specifications

Model	SPT- 500A	SPT- 700A	SPT-1000A SPR-1000A	SPT- 1500A SPR- 1500A	SPT- 2000A SPR- 2000A	SPT- 3000A SPR- 3000A	
Configuration							
Capacity (VA)	500 VA	700 VA	1000 VA	1500 VA	2000 VA	3000 VA	
Capacity (Watts)	350 W	490 W	700 W	1050 W	1400 W	2100 W	
Form	Tower Type : SPT model Rack and Tower Type : SPR model						
Input							
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC					220 / 230 / 240 VAC	
Input Voltage Range	75 - 150 or 165 - 300 VAC					165 - 300 VAC	
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)						
Output							
Waveform	Pure Sine Wave						
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC					220 / 230 / 240 VAC	
Frequency	50 Hz / 60 Hz ± 0.5 Hz						
Transfer Time	2-4 ms (Typical)						
Protection							
Full Protection	Overload, Surge, Short Circuit						
Tel Communication	RJ11 / RJ45						
Battery							
Type	12V 7.2Ah	12V 9Ah	12V 7Ah	12V 7.2Ah	12V 9Ah	12V 7Ah	
Quantity	1	1	2	2	2	4	
Sealed, Maintenance Free	Yes						
Typical Recharge Time	3-4 hr to 90%						
Management & Communication							
Indicator	LED Panel						
Communication Port	USB B type		USB B type, RS232, SNMP (Option)				
Physical							
SPT	Dimensions (WxDxH) (mm)	102 x 326 x 165		140 x 380 x 210		170 x 450 x 226	
	Weight (kgs)	6.2	6.8	14	15	17.5	25.4
	Shipping Dimensions (mm)	196 x 410 x 263		258 x 487 x 326		298 x 356 x 553	
	Shipping Weight (kgs)	7.2	7.8	15.4	16.4	18.9	28.2
SPR	Dimensions (WxDxH) (mm)	--		428 x 431 x 84		428 x 562 x 84	
	Weight (kgs)	--		14.4	16.7	18.8	26.5
	Shipping Dimensions (mm)	--		577 x 590 x 221		577 x 720 x 221	
	Shipping Weight (kgs)	--		18.2	20.4	22.6	30.5
Alarm							
Overload / Fault	Continuous Beeping						
Battery Mode	Beep every 4 seconds						
Low Battery	Beep every 1 second						
Environment							
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)						
Audible Noise	Less than 40 dB						

* Specifications are subject to change without further notice.

* Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



SMART KING PRO LCD Series

Smart King Pro LCD series with colorful LCD indicator upgrade user operating quality.

- Line interactive UPS design
- Pure sinewave output
- Colorful and clearly LCD indicator
- Energy saving green topology
- Overload, Surge, short circuit protection



SPT-1000-2000A-LCD SPR-1000-3000A-LCD

Specifications

Model	SPT-1000A-LCD SPR-1000A-LCD	SPT- 1500A-LCD SPR- 1500A-LCD	SPT- 2000A-LCD SPR- 2000A-LCD	SPT- 3000A-LCD SPR- 3000A-LCD	
Configuration					
Capacity (VA)	1000 VA	1500 VA	2000 VA	3000 VA	
Capacity (Watts)	800 W	1200 W	1600 W	2400 W	
Form	Tower Type : SPT LCD Model Rack and Tower Type : SPR LCD Model				
Input					
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC			220 / 230 / 240 VAC	
Input Voltage Range	75 - 150 or 165 - 300 VAC			165 - 300 VAC	
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)				
Output					
Waveform	Pure Sine Wave				
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC			220 / 230 / 240 VAC	
Frequency	50 Hz / 60 Hz ± 0.5 Hz				
Transfer Time	2-4 ms (Typical)				
Protection					
Full Protection	Overload, Surge, Short Circuit				
Tele Communication	RJ11 / RJ45				
Battery					
Type	12V 7Ah	12V 7.2Ah	12V 9Ah	12V 7Ah	
Quantity	2	2	2	4	
Sealed, Maintenance Free	Yes				
Typical Recharge Time	3-4 hr to 90%				
Management & Communication					
Indicator	LCD Control Panel				
Communication Port	USB B type, RS232				
Physical					
SPT LCD	Dimensions (WxDxH) (mm)	140 x 380 x 210			170 x 450 x 226
	Weight (kgs)	14	15	17.5	25.4
	Shipping Dimensions (mm)	258 x 487 x 326			298 x 356 x 553
	Shipping Weight (kgs)	15.4	16.4	18.9	28.2
SPR LCD	Dimensions (WxDxH) (mm)	428 x 431 x 84			428 x 562 x 84
	Weight (kgs)	14.4	16.7	18.8	26.5
	Shipping Dimensions (mm)	577 x 590 x 221			577 x 720 x 221
	Shipping Weight (kgs)	18.2	20.4	22.6	30.5
Alarm					
Overload / Fault	Continuous Beeping				
Battery Mode	Beep every 4 seconds				
Low Battery	Beep every 1 second				
Environment					
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)				
Audible Noise	Less than 40 dB				

* Specifications are subject to change without further notice.

* Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



VANGUARD Series

Reliable Vanguard carry on the duty for server and data center.

- On-Line UPS Design
- Pure Sinewave Output
- High Efficiency Mode
- Free-Run Mode
- Hot Swappable Battery
- Simple and Clear LCD Indicator
- Overload, Surge, Short Circuit Protection
- Design for Advance Missional Electronic Device



VGD-700-5000

Specifications

Model	VGD-700	VGD-1000	VGD-1500	VGD-2000	VGD-3000	VGD-4000	VGD-5000
Configuration							
Capacity (VA)	700 VA	1000 VA	1500 VA	2000 VA	3000 VA	4000 VA	5000 VA
Capacity (Watts)	490 W	700 W	1050 W	1400 W	2100 W	2800 W	3500 W
Form	Tower Type						
Phase	Single Phase						
Energy Saving	Yes - ECO Mode Efficiency >94%						
Input							
Voltage	100 / 110 / 115 / 120 / 127 Vac or 208 / 220 / 230 / 240 VAC					208 / 220 / 230 / 240 VAC	
Input Voltage Range (110 Vac)	60 - 144 VAC < 40% Load 70 - 144 VAC < 70% Load 80 - 144 VAC < 100% Load					120 - 276 VAC < 25% Load 140 - 276 VAC < 50 % Load 160 - 276 VAC < 75% Load 180 - 276 VAC < 100% Load	
Input Voltage Range (220 Vac)	120 - 276 VAC < 40% Load 140 - 276 VAC < 70 % Load 160 - 276 VAC < 100% Load						
Input Frequency Range	50 / 60 Hz (Auto Sensing)						
Input Power Factor	>0.97						
Cold Start	Yes						
Output							
Rated Power Factor	0.7						
Waveform	Pure Sine Wave						
Voltage	100 / 110 / 115 / 120 / 127 Vac or 208* / 220 / 230 / 240 Vac ± 2%					208* / 220 / 230 / 240 Vac ± 2%	
Frequency	50 / 60 Hz ±0.5 %						
Transfer Time	0 ms						
Harmonic Distortion	≤ 3% THD at Linear Load						
Crest Factor	3 : 1						
EPO Function	Yes						
Protection							
Overload	110% - 125% for 60 seconds : 125% - 150% for 10 seconds						
Battery Mode	> 110% for 10 seconds						
Surge Protection	IEC 61000-4-5 Level 3						
Bypass	Internal Bypass (Automatic and Manual)						
Short Circuit Protection	UPS Output Cut Off Immediately						
Battery							
Type	12V 7Ah	12V 7Ah	12V 9Ah	12V 7Ah	12V 9Ah	12V 7Ah	12V 9Ah
Quantity	2	3	3	6	6	10	10
Sealed, Maintenance Free	Yes						
Typical Recharge Time	4 hr to 90%						
External Battery Module	Option						
External Battery Connector	Option						
Management & Communication							
Indicator	LCD Control Panel						
Communication Port	RS 232, USB B type, SNMP card (Option)						
Audible Alarms	Yes						
SNMP Slot	Option						
Physical							
Dimensions (WxDxH)(mm)	152 x 420 x 237		225 x 420 x 360		258 x 537 x 440		
Weight (kgs)	15.3	16	17.7	30.6	33.5	50	
Shipping Dimensions (mm)	280 x 545 x 355		340 x 526 x 485		406 x 682 x 525		
Shipping Weight (kgs)	17.5	17.4	19.5	33.2	35.9	53	

* While 208V output, capacity will be derated to 90%.

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



VANGUARD Series

Reliable Vanguard carry on the duty for server and data center.

- On-Line UPS Design
- Pure Sinewave Output
- High Efficiency Mode
- Free-Run Mode
- Hot Swappable Battery
- Simple and Clear LCD Indicator
- Overload, Surge, Short Circuit Protection
- Design for Advance Missional Electronic Device



VGD-6000-20K

Specifications

Model	VGD-6000	VGD-8000	VGD-10K	VGD-12K	VGD-15K	VGD-20K
Configuration						
Capacity (VA)	6000 VA	8000 VA	10 KVA	12000 VA	15000 VA	20000 VA
Capacity (Watts)	4200 W	5600 W	7000 W	8400 W	10500 W	14000 W
Form	Tower Type					
Phase	Single Phase					
Energy Saving	Yes - ECO Mode Efficiency >94%					
Input						
Voltage	208 / 220 / 230 / 240 VAC					
Input Voltage Range	120 - 276 VAC < 25% Load					
	140 - 276 VAC < 50 % Load					
	160 - 276 VAC < 75% Load					
	180 - 276 VAC < 100% Load					
Input Frequency Range	50 / 60 Hz (Auto Sensing)					
Input Power Factor	>0.97					
Cold Start	Yes					
Output						
Rated Power Factor	0.7					
Waveform	Pure Sine Wave					
Voltage	208* / 220 / 230 / 240 Vac ± 2%					
Frequency	50 / 60 Hz ±0.5 %					
Transfer Time	0 ms					
Harmonic Distortion	≤ 3% THD at Linear Load			≤ 5% THD at Linear Load		
Crest Factor	3 : 1					
EPO Function	Yes					
Protection						
Overload	Line Mode	110% - 125% for 60 seconds ; 125% - 150% for 10 seconds				
	Battery Mode	> 110% for 10 seconds				
Surge Protection	IEC 61000-4-5 Level 3					
Bypass	Internal Bypass (Automatic and Manual)					
Short Circuit Protection	UPS Output Cut Off Immediately					
Battery						
Type	12V 7Ah	12V 7Ah	12V 9Ah	12V 7Ah	12V 7Ah	12V 9Ah
Quantity	20	20	20	20 x 2 set	20 x 2 set	20 x 2 set
Sealed, Maintenance Free	Yes					
Typical Recharge Time	4 hr to 90%					
External Battery Module	Option					
External Battery Connector	Option					
Management & Communication						
Indicator	LCD Control Panel					
Communication Port	RS 232, USB B type, SNMP card (Option)					
Audible Alarms	Yes					
SNMP Slot	Option					
Physical						
Dimensions (WxDxH)(mm)	257 x 590 x 570	257 x 690 x 715	342 x 687 x 905	342 x 687 x 905	342 x 757 x 905	342 x 757 x 905
Weight (kgs)	86	112	190	190	207	207
Shipping Dimensions (mm)	415 x 760 x 800	415 x 860 x 930	500 x 860 x 972	500 x 860 x 972	500 x 930 x 1135	500 x 930 x 1135
Shipping Weight (kgs)	106	139	210.7	210.7	225	225

* While 208V output, capacity will be derated to 90%.

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



VANGUARD RM Series

VRM series take the responsibility of missional electronic protection.

- On-Line UPS Design
- Pure Sinewave Output
- High Efficiency Mode
- Free-Run Mode
- Generator Compatible
- Hot Swappable Battery
- Simple and Clear LCD Indicator
- Overload, Surge, Short Circuit Protection
- Design for Advance Missional Electronic Device



Specifications

Model	VGD-700 RM	VGD-1000 RM	VGD-1500 RM	VGD-2000 RM	VGD-3000 RM	
Configuration						
Capacity (VA)	700 VA	1000 VA	1500 VA	2000 VA	3000 VA	
Capacity (Watts)	490 W	700 W	1050 W	1400 W	2100 W	
Form	Rack Type					
Phase	Single Phase					
Energy Saving	Yes - ECO Mode Efficiency >94%					
Input						
Voltage	100 / 110 / 115 / 120 / 127 Vac or 208 / 220 / 230 / 240 VAC					
Input Voltage Range (110 Vac)	60 - 144 VAC < 40% Load 70 - 144 VAC < 70% Load 80 - 144 VAC < 100% Load					
Input Voltage Range (220 Vac)	120 - 276 VAC < 40% Load 140 - 276 VAC < 70 % Load 160 - 276 VAC < 100% Load					
Input Frequency Range	50 / 60 Hz (Auto Sensing)					
Input Power Factor	>0.97					
Cold Start	Yes					
Output						
Rated Power Factor	0.7					
Waveform	Pure Sine Wave					
Voltage	208* / 220 / 230 / 240 Vac ± 2%					
Frequency	50 / 60 Hz ±0.25 Hz					
Transfer Time	0 ms					
Harmonic Distortion	≤ 3% THD at Linear Load					
Crest Factor	3 : 1					
EPO Function	Yes					
Protection						
Overload	Line Mode	110% - 125% for 60 seconds ; 125% - 150% for 10 seconds				
	Battery Mode	> 110% for 10 seconds				
Surge Protection	IEC 61000-4-5 Level 3					
Bypass	Internal Bypass (Automatic and Manual)					
Short Circuit Protection	UPS Output Cut Off Immediately					
Battery						
Type	12V 7Ah	12V 7Ah	12V 9Ah	12V 7Ah	12V 9Ah	
Quantity	2	3	3	6	6	
Sealed, Maintenance Free	Yes					
Typical Recharge Time	4 hr to 90%					
External Battery Module	Option					
External Battery Connector	Option					
Management & Communication						
Indicator	LCD Control Panel					
Communication Port	RS 232, USB B type, SNMP card (Option)					
SNMP Slot	Option					
Audible Alarms	Yes					
Physical						
Dimensions (WxDxH)(mm)	428 x 525 x 44 (1U)	428 x 425 x 84 (2U)	428 x 525 x 44 (1U)	428 x 425 x 84 (2U)	428 x 425 x 84 (2U)	428 x 635 x 84 (2U)
Power Weight (kgs)	15.5	14.6	15.5	17.7	19.1	31.7 31.7
Module Shipping Dimensions (mm)	547x645x168	546x552x206	547x645x168	546x552x206	546x552x206	550x750x220
Shipping Weight (kgs)	17.5	16.4	17.5	19.9	21.3	34.7 34.7
Battery Dimensions (WxDxH)(mm)	-	546 x 552 x 206 (2U)	-	546 x 552 x 206 (2U)	546 x 552 x 206 (2U)	428 x 425 x 84 (2U)
Module Weight (kgs)	-	16.3	-	16.3	16.3	43.5

* While 208V output, capacity will be derated to 90%.

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



VANGUARD RM Series

VRM series take the responsibility of missional electronic protection.

- On-Line UPS Design
- Pure Sinewave Output
- High Efficiency Mode
- Free-Run Mode
- Generator Compatible
- Hot Swappable Battery
- Simple and Clear LCD Indicator
- Overload, Surge, Short Circuit Protection
- Design for Advance Missional Electronic Device



VRM-4K-5K(3U)



VRM-6K-12K(3U+3U)

Specifications

Model	VGD-4000 RM	VGD-5000 RM	VGD-6000 RM	VGD-8000 RM	VGD-10K RM	VGD-12K RM
Configuration						
Capacity (VA)	4000 VA	5000 VA	6000 VA	8000 VA	10 KVA	12 KVA
Capacity (Watts)	2800 W	3500 W	4200 W	5600 W	7000 W	8400 W
Form	Rack Type					
Phase	Single Phase					
Energy Saving	Yes - ECO Mode Efficiency >94%					
Input						
Voltage	208 / 220 / 230 / 240 Vac					
Input Voltage Range	120 - 276 VAC < 25% Load					
	140 - 276 VAC < 50 % Load					
	160 - 276 VAC < 75% Load					
	180 - 276 VAC < 100% Load					
Input Frequency Range	50 / 60 Hz (Auto Sensing)					
Input Power Factor	>0.97					
Cold Start	Yes					
Output						
Rated Power Factor	0.7					
Waveform	Pure Sine Wave					
Voltage	208* / 220 / 230 / 240 Vac ± 2%					
Frequency	50 / 60 Hz ±0.25 Hz					
Transfer Time	0 ms					
Harmonic Distortion	≤ 3% THD at Linear Load					
Crest Factor	3 : 1					
EPO Function	Yes					
Protection						
Overload	Line Mode	110% - 125% for 60 seconds ; 125% - 150% for 10 seconds				
	Battery Mode	> 110% for 10 seconds				
Surge Protection	IEC 61000-4-5 Level 3					
Bypass	Internal Bypass (Automatic and Manual)					
Short Circuit Protection	UPS Output Cut Off Immediately					
Battery						
Type	12V 5Ah	12V 5Ah	12V 7Ah	12V 7Ah	12V 9Ah	12V 9Ah
Quantity	10	10	20	20	20	20
Sealed, Maintenance Free	Yes					
Typical Recharge Time	4 hr to 90%					
External Battery Module	Option					
External Battery Connector	Option					
Management & Communication						
Indicator	LCD Control Panel					
Communication Port	RS 232, USB B type, SNMP card (Option)					
SNMP Slot	Option					
Audible Alarms	Yes					
Physical						
Power	Dimensions (WxDxH)(mm)	428 x 657 x 130 (3U)		428 x 597 x 130 (3U)		428 x 657 x 130 (3U)
	Weight (kgs)	40		20		24.3
Module	Shipping Dimensions(mm)	590 x 830 x 370 (3U)		560 x 740 x 273 (3U)		565 x 805 x 280
	Shipping Weight (kgs)	54		24		30.5
Battery	Dimensions (WxDxH)(mm)	-		428 x 597 x 130 (3U)		428 x 657 x 130 (3U)
	Weight (kgs)	-		66		68

* While 208V output, capacity will be derated to 90%.

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



TYPE B



TYPE E



TYPE F



TYPE G



TYPE I



TYPE IEC

VANGUARD II Series

VGS high frequency series are the worth trust for data center.

- On-Line UPS Design
- Pure Sinewave Output
- Double Conversion Technology
- High Efficiency Mode
- Advance Battery Management (ABM)
- Simple and Clear LCD Indicator
- Overload, Surge, Short Circuit Protection
- Design for Advance Missional Electronic Device
- Tower Type Design
- Free-Run Mode



VGS-1000-3000

Specifications

Model	VGS-1000	VGS-1500	VGS-2000	VGS-3000	VGS-6000	VGS-10K
Configuration						
Capacity (VA)	1000 VA	1500 VA	2000 VA	3000 VA	6000 VA	10000 VA
Capacity (Watts)	900 W	1350 W	1800 W	2700 W	5400 W	9000 W
Form	Tower Type					
Phase	Single Phase					
Energy Saving	Yes - ECO Mode Efficiency >94%					
Input						
Voltage	100 / 110 / 115 / 120 / 127 Vac or 208 / 220 / 230 / 240 Vac				208 / 220 / 230 / 240 Vac	
Input Voltage Range (110 Vac)	60 - 144 VAC, < 25% Load 70 - 144 VAC, < 50% Load 80 - 144 VAC, < 75% Load 90 - 144 VAC, < 100% Load				120 - 276 VAC, < 25% Load 140 - 276 VAC, < 50% Load 160 - 276 VAC, < 75% Load 180 - 276 VAC, < 100% Load	
Input Voltage Range (220 Vac)	120 - 276 VAC, < 25% Load 140 - 276 VAC, < 50% Load 160 - 276 VAC, < 75% Load 180 - 276 VAC, < 100% Load					
Input Frequency Range	50 / 60 Hz (Auto Sensing)					
Input Power Factor	>0.97					
Cold Start	Yes					
Output						
Rated Power Factor	0.9					
Waveform	Pure Sine Wave					
Voltage	100 / 110 / 115 / 120 / 127 Vac or 208 / 220 / 230 / 240 Vac ± 2%				208 / 220 / 230 / 240 Vac ± 2%	
Frequency	50 / 60 Hz ±0.25 Hz					
Transfer Time	0 ms					
Harmonic Distortion	≤ 2.5% THD at Linear Load				≤ 3% THD at Linear Load	
Crest Factor	3 : 1					
EPO Function	Yes					
Protection						
Overload	Line Mode	105% - 120% for 30 seconds 121% - 150% for 10 seconds				
	Battery Mode	101% - 109% for 10 seconds 110% - 120% for 3 seconds				
Surge Protection	IEC 61000-4-5 Level 3					
Bypass	Internal Bypass (Automatic and Manual)					
Short Circuit Protection	UPS Output Cut Off Immediately					
Battery						
Type	12V 7Ah	12V 7Ah	12V 7Ah	12V 7Ah	12V 7Ah	12V 9Ah
Quantity	3	4	6	8	20	20
Sealed, Maintenance Free	Yes					
Typical Recharge Time	4 hr to 90%					
External Battery Module	Option					
External Battery Connector	Option					
Management & Communication						
Indicator	LCD Control Panel					
Communication Port	RS 232, USB B type					
SNMP Slot	Option					
Audible Alarms	Yes					
Physical						
Dimensions (WxDxH) (mm)	152 x 420 x 237	152 x 500 x 241	225 x 420 x 358		257 x 590 x 570	257 x 690 x 585
Weight (kgs)	15.2	19.4	28.8	30	86	96.5
Shipping Dimensions (mm)	280 x 545 x 355	280 x 625 x 356	340 x 526 x 485		415 x 760 x 800	405 x 860 x 800
Shipping Weight (kgs)	17.4	21.3	31.6	32.9	93.5	112

* While 208V output, capacity will be derated to 90%.

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



VANGUARD II RT Series

Advance VRT series with technology suitable for data center.

- On-Line UPS Design
- Pure Sinewave Output
- Double Conversion Technology
- High Efficiency Mode
- Advance Battery Management (ABM)
- Simple and Clear LCD Indicator
- Overload, Surge, Short Circuit Protection
- Rack Type Design
- Free-Run Mode



VRT-1000-3000

VRT-2000-3000 (2U+2U)

Specifications

Model	VRT-1000	VRT-1500	VRT-2000	VRT-3000	VRT-2000 (2U+2U)	VRT-3000 (2U+2U)	VRT-6000	VRT-10K	
Configuration									
Capacity (VA)	1000 VA	1500 VA	2000 VA	3000 VA	2000 VA	3000 VA	6000 VA	10000 VA	
Capacity (Watts)	900 W	1350 W	1800 W	2700 W	1800W	2700W	5400 W	9000 W	
Form	Rack and Tower Type								
Phase	Single Phase								
Energy Saving	Yes - ECO Mode Efficiency >94%								
Input									
Voltage	100 / 110 / 115 / 120 / 127 Vac or 208 / 220 / 230 / 240 Vac						208 / 220 / 230 / 240 Vac		
Input Voltage Range (110 Vac)	60 - 144 VAC < 25% Load 70 - 144VAC < 50 % Load 80 - 144 VAC < 75% Load 90 - 144 VAC < 100% Load						120 - 276 VAC, < 25% Load 140 - 276 VAC, < 50% Load 160 - 276 VAC, < 75% Load 180 - 276 VAC, < 100% Load		
Input Voltage Range (220 Vac)	120 - 276 VAC, < 25% Load 140 - 276 VAC, < 50% Load 160 - 276 VAC, < 75% Load 180 - 276 VAC, < 100% Load								
Input Frequency Range	50 / 60 Hz (Auto Sensing)								
Input Power Factor	>0.97								
Cold Start	Yes								
Output									
Rated Power Factor	0.9								
Waveform	Pure Sine Wave								
Voltage	100 / 110 / 115 / 120 / 127 Vac or 208* / 220 / 230 / 240 Vac ± 2%						208* / 220 / 230 / 240 Vac ± 2%		
Frequency	50 / 60 Hz ±0.25 Hz								
Transfer Time	0 ms								
Harmonic Distortion	≤ 2.5% THD at Linear Load						≤ 3% THD at Linear Load		
Crest Factor	3 : 1								
EPO Function	Yes								
Protection									
Overload	Line Mode	105% - 120% for 30 seconds 121% - 150% for 10 seconds							
	Battery Mode	101% - 109% for 10 seconds 110% - 120% for 3 seconds							
Surge Protection	IEC 61000-4-5 Level 3								
Bypass	Internal Bypass (Automatic and Manual)								
Short Circuit Protection	UPS Output Cut Off Immediately								
Battery									
Type	12V 7Ah	12V 7Ah	12V 7Ah	12V 9Ah	12V 7Ah	12V 7Ah	12V 7Ah	12V 9Ah	
Quantity	3	4	6	6	6	8	20	20	
Sealed, Maintenance Free	Yes								
Typical Recharge Time	4 hr to 90%								
External Battery Module	Option								
External Battery Connector	Option								
Management & Communication									
Indicator	LCD Control Panel								
Communication Port	RS 232, USB B type								
SNMP Slot	Option								
Audible Alarms	Yes								
Physical									
Power Module	Dimensions (WxDxH)(mm)	428 x 425 x 84	428 x 500 x 84	428 x 635 x 84		428 x 425 x 84		428 x 597 x 130 (3U)	428 x 657 x 130
	Weight (kgs)	16.3	17.9	29.8	32.6	10.1		20	25
	Shipping Dimensions(mm)	546 x 552 x 206	550 x 620 x 220	550 x 750 x 220		546 x 552 x 206		560 x 740 x 273	565 x 805 x 208
	Shipping Weight (kgs)	19.4	21	33.9	36.5	13.2		24	31.2
Battery Module	Dimensions (WxDxH)(mm)	--	--	--		428 x 425 x 84		428 x 597 x 130 (3U)	428 x 657 x 130
	Weight (kgs)	--	--	--		21	24.2	66	68
	Shipping Dimensions(mm)	--	--	--		546 x 552 x 206		560 x 740 x 375	590 x 830 x 370
	Shipping Weight (kgs)	--	--	--		23	26.2	75.5	83

* While 208V output, capacity will be derated to 90%.

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



MACAN Comfort Series

High quality and quiet MAC protect data center and network system.

- On-Line UPS Design
- Pure Sinewave Output
- Six Section Fan Regulation for Different Loading
- Simple and Clear LCD Indicator
- Double Conversion Topology
- Output Power Factor 1.0 Series
- Overload, Surge, Short Circuit Protection
- Free-Run Mode



Specifications

Model		MAC-1000	MAC-1500	MAC-2000	MAC-3000	MAC-6000	MAC-10K
Configuration							
Capacity (VA)		1000 VA	1500 VA	2000 VA	3000 VA	6000 VA	10 KVA
Capacity (Watts)		1000 W	1500 W	2000 W	3000 W	6000 W	10 KW
Form		Tower Type					
Phase		Single Phase					
Energy Saving		Yes - ECO Mode Efficiency >94%					
Input							
Voltage		208 / 220 / 230 / 240 Vac					
Input Voltage Range		120 - 276 VAC, < 25% Load 140 - 276 VAC, < 50% Load 160 - 276 VAC, < 75% Load 180 - 276 VAC, < 100% Load					
Input Frequency Range		50 / 60 Hz (Auto Sensing)					
Input Power Factor		>0.97					
Cold Start		Yes					
Output							
Rated Power Factor		1.0					
Waveform		Pure Sine Wave					
Voltage		208* / 220 / 230 / 240 Vac ± 2%					
Frequency		50 / 60 Hz ±0.25 Hz					
Transfer Time		0 ms					
Harmonic Distortion		≤ 2.5% THD at Linear Load					
Crest Factor		3 : 1					
EPO Function		Option					
Protection							
Overload	Line Mode	105% - 120% for 30 seconds 121% - 150% for 10 seconds					
	Battery Mode	101% - 109% for 10 seconds 110% - 120% for 3 seconds					
Surge Protection		IEC 61000-4-5 Level 3					
Bypass		Internal Bypass (Automatic and Manual)					
Short Circuit Protection		UPS Output Cut Off Immediately					
Battery							
Type		12V 9Ah	12V 7Ah	12V 7Ah	12V 9Ah	12V 7Ah	12V 9Ah
Quantity		2	4	6	6	20	20
Sealed, Maintenance Free		Yes					
Typical Recharge Time		4 hr to 90%					
External Battery Module		Option					
External Battery Connector		Option					
Management & Communication							
Indicator		LCD Control Panel					
Communication Port		RS 232, USB B type					
SNMP Slot		Option					
Audible Alarms		Yes					
Physical							
Dimensions (WxDxH) (mm)		144 x 357 x 228		191 x 406 x 327		257 x 590 x 570	257 x 590 x 570
Weight (kgs)		10.4	16.4	20.3	22.9	86	95
Shipping Dimensions (mm)		249 x 448 x 359		292 x 500 x 455		257 x 590 x 700	257 x 590 x 700
Shipping Weight (kgs)		11.5	18.4	22.3	24.9	106	115

* While 208V output, capacity will be derated to 90%.

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



MACAN RT Series

High quality pure sinewave output for data center power supply.

- On-Line UPS Design
- Pure Sinewave Output
- Output Power Factor 1.0 Series
- Hot Swappable Battery Replacement
- Simple and Clear Self-Rotated LCD Indicator
- UPSMON Monitor Management
- Overload, Surge, Short Circuit Protection
- Free-Run Mode



Specifications

Model		MRT-1000	MRT-1500	MRT-2000	MRT-3000	MRT-6000	MRT-10K
Configuration							
Capacity (VA)		1000 VA	1500 VA	2000 VA	3000 VA	6000 VA	10 KVA
Capacity (Watts)		1000 W	1500 W	2000 W	3000 W	6000 W	10 KW
Form		Rack and Tower Type					
Phase		Single Phase					
Energy Saving		Yes - ECO Mode Efficiency >94%					
Input							
Voltage		208 / 220 / 230 / 240 Vac					
Input Voltage Range		120 - 276 VAC, < 25% Load 140 - 276 VAC, < 50% Load 160 - 276 VAC, < 75% Load 180 - 276 VAC, < 100% Load					
Input Frequency Range		50 / 60 Hz (Auto Sensing)					
Input Power Factor		>0.97					
Cold Start		Yes					
Output							
Rated Power Factor		1.0					
Waveform		Pure Sine Wave					
Voltage		208* / 220 / 230 / 240 Vac ± 2%					
Frequency		50 / 60 Hz ±0.25 Hz					
Transfer Time		0 ms					
Harmonic Distortion		≤ 2.5% THD at Linear Load			≤ 3% THD at Linear Load		
Crest Factor		3 : 1					
EPO Function		Option					
Protection							
Overload	Line Mode	105% - 120% for 30 seconds 121% - 150% for 10 seconds					
	Battery Mode	101% - 109% for 10 seconds 110% - 120% for 3 seconds					
Surge Protection		IEC 61000-4-5 Level 3					
Bypass		Internal Bypass (Automatic and Manual)					
Short Circuit Protection		UPS Output Cut Off Immediately					
Battery							
Battery Type + Quantity		12V 7Ah	12V 9Ah	12V 7Ah	12V 9Ah	12V 5Ah	12V 9Ah
Internal Batt.		Yes	Yes	Yes	Yes	External Batt.	External Batt.
Quantity		3	3	6	6	20	20
Sealed, Maintenance Free		Yes					
Typical Recharge Time		4 hr to 90%					
External Battery Module		Option				Yes	
External Battery Connector		Option				Yes	
Management & Communication							
LCD Control Panel		Yes					
Communication Port		RS 232, USB B type					
SNMP Slot		Option					
Audible Alarms		Yes					
Physical							
Power Module	Dimensions(WxDxH)(mm)	428 x 425 x 84			428 x 635 x 84		
	Weight (kgs)	14.7	16.2	26.2	29	15.7	20
	Shipping Dimensions(mm)	546 x 552 x 206			550 x 750 x 220		
Batt. Module	Shipping Weight (kgs)	17.5	19	30	33.4	18	24
	Dimensions(WxDxH)(mm)	428 x 425 x 84		428 x 635 x 84		428 x 635 x 84 (2U)	428 x 657 x 130 (3U)
	Weight (kgs)	20.7		37.3		42	68
	Dimensions(WxDxH)(mm)	546 x 552 x 206		500 x 750 x 220		500 x 750 x 220	830 x 590 x 370
	Weight (kgs)	23.4		40.8		45.6	83

* While 208V output, capacity will be derated to 90%.

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



VANGUARD 31 Series

Particular Three phase in- Single phase out for specific application.

- On-Line UPS Design
- Pure Sinewave Output
- High Efficiency Mode
- Tower Type Design
- Three Phase Input, Single Phase output
- Advance Battery Management (ABM)
- Simple and Clear LCD Indicator (Option)
- Overload, Surge, Short Circuit Protection
- Design for Advance Missional Electronic Device



Specifications

Model	VGD-8000 31	VGD-10K 31	VGD-12K 31	VGD-15K 31	VGD-20K 31
Configuration					
Capacity (VA)	8000 VA	10 KVA	12 KVA	15 KVA	20 KVA
Capacity (Watts)	5600 W	7000 W	8400 W	10500 W	14 KW
Form	Tower Type				
Phase	Input: Three Phase , Output: Single Phase				
Energy Saving	Yes - ECO Mode Efficiency >94%				
Input					
Voltage	208/360VAC, 220/380VAC, 230/400VAC, 240/415 VAC (3Ø 5W)				
Input Voltage Range	208 - 478 VAC < 25% Load 243 - 478 VAC < 50 % Load 277 - 478 VAC < 75% Load 312 - 478 VAC < 100% Load				
Input Frequency Range	50 / 60 Hz (Auto Sensing)				
Input Power Factor	> 0.9				
Cold Start	Yes				
Output					
Rated Power Factor	0.7				
Waveform	Pure Sine Wave				
Voltage	208* / 220 / 230 / 240 Vac ± 2%				
Frequency	50 / 60 Hz ±0.5 %				
Transfer Time	0 ms				
Harmonic Distortion	≤ 3% THD at Linear Load		≤ 5% THD at Linear Load		
Crest Factor	3 : 1				
EPO Function	Yes				
Protection					
Overload	Line Mode	110% - 125% for 60 seconds			
	Battery Mode	> 110% for 10 seconds			
Surge Protection	IEC 61000-4-5 Level 3				
Bypass	Internal Bypass (Automatic and Manual)				
Short Circuit Protection	UPS Output Cut Off Immediately				
Battery					
Type	12V 7Ah	12V 9Ah	12V 7Ah	12V 9Ah	
Quantity	20	20	20 x 2 set	20 x 2 set	
Sealed, Maintenance Free	Yes				
Typical Recharge Time	4 hr to 90%				
External Battery Module	Option				
External Battery Connector	Option				
Management & Communication					
Indicator	LCD Control Panel				
Communication Port	RS 232, USB B type				
Audible Alarms	Yes				
SNMP Slot	Option				
Physical					
Dimensions (WxDxH) (mm)	257 x 690 x 715		342 x 690 x 905	342 x 757 x 905	
Weight (kgs)	112		190	207	
Shipping Dimensions (mm)	415 x 860 x 930		500 x 860 x 972	500 x 930 x 1135	
Shipping Weight (kgs)	139		210.7	22.5	

* While 208V output, capacity will be derated to 90%.
 ** Specifications are subject to change without further notice.
 ** Specifications are for reference, please refer to information based on real product.

ONL Series

Industrial three phase UPS processed with data center strong protection.

- On-Line UPS Design
- Pure Sinewave Output
- Large Input Voltage Range
- Advance Battery Management (ABM)
- Generator Compatible
- Multi-Microprocessor Control
- Clear and LCD Indicator (Option)
- Energy Saving Green Topology
- UPSMON Monitor Management
- Industrial Usage



ONL-3750-15K

Specifications

Model	ONL-3750S	ONL-6250S	ONL-7500S	ONL-10KS	ONL-15KS
Capacity					
Capacity (VA)	3750 VA	6250 VA	7500 VA	10 KVA	15 KVA
Capacity (Watts)	3000 W	5000 W	6000 W	8000 W	12 KW
Phase	Single Phase (1 Ø 2W)				
Main Input					
Voltage	110 or 220 VAC				
Voltage Range	82 - 137 or 165 - 275 VAC				
Frequency	50 / 60Hz				
Frequency Range	45 - 65 Hz				
Output					
Inverter Voltage	110 / 115 / 120 VAC or 220 / 230 / 240 VAC				
Inverter Frequency	50 / 60 Hz				
Output Power Factor	0.8 - 1.0 Lagging				
Voltage Precision	±1.0% (100% Linear Load)				
Output THDv	< 3% (Linear Load)				
Inverter Overload	< 125 %,Continue Working 125 % to 150 %, 20 seconds >150 %, for 10 Cycles				
Frequency Regulation	50 / 60Hz ±0.1%				
Synchronized Range	Default Range : ± 5 Hz				
Synchronized Slew Rate	Default Range : 1 Hz/s				
Battery And Charger					
Battery Voltage	220VDC (12V 16pcs)				
Charger Voltage precision	1%				
Charger Power	1.5 A			3 A	
Efficiency					
Normal Operation	> 84 %			> 85 %	
Battery Operation	> 88 %			> 90 %	
Static Transfer Switch					
Inverter to Bypass	0 ms				
Bypass to Inverter	0 ms				
Transfer Efficiency	> 99%				
Environmental					
Operation Temperature	0 - 40°C				
Storage Temperature	-15 - 60°C				
Relative Humidity	0 - 95% (Non condensing)				
Noise (1m from surface)	< 55 dBA			< 60 dBA	
Altitude	Normal Load: <1000m				
Physical Data					
Dimension (WxDxH) (mm)	265 x 641 x 750			350 x 641 x 1010	
Weight (kg) (Without Battery)	111.4	83.8	120.4	156.2	175
Indicator	LED or LCD Panel				
System					
Interface	Standard : RS232 Optional : SNMP / Dry Contact				
Other Function	Standard : Battery Cold Start				

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

ONL II-33 Series

Three Phase professional UPS are the best choice for industrial usage.

- Three Phase Power UPS
- DSP (Digital Signal Processor) Control
- IGBT Modular Design
- Generator Compatible
- Dry Contact Function
- Isolation Transformer
- Human Voice Alarm System
- Industrial Usage



ONL II-10K33-30K33

ONL II-45K33-60K33

Specifications

Model	ONL II-10K33	ONL II-15K33	ONL II-20K33	ONL II-30K33	ONL II-45K33	ONL II-60K33
Capacity						
Capacity (VA)	10 KVA	15 KVA	20 KVA	30 KVA	45 KVA	60 KVA
Capacity (Watts)	8 KW	12 KW	16 KW	24 KW	36 KW	48 KW
Phase	Three Phase					
Main Input						
Grid System	3 Phases + Neutral + Ground					
Voltage	190 / 200 / 208 / 220 / 380 / 400 / 415 / 440 VAC (Line-Line)					
Voltage Range	152 - 528 VAC (Line-Line)					
Frequency	50 / 60Hz (Auto Sensing)					
Frequency Range	45 - 65Hz					
Output						
Inverter Voltage	190 / 200 / 208 / 220 / 380 / 400 / 415 / 440 VAC (Line-Line)					
Inverter Frequency	50 / 60Hz					
Output Power Factor	0.8 - 1.0 Lagging					
Voltage Precision	±1.0% (100% Linear Load)					
Transient Response	Linear Load 0-100 % < 5%					
Transient Recovery	±2.0% < 50 ms					
Output THDv	<3% (Linear Load)					
Inverter Overload	> 100%, 30 min					
	> 125%, 10 min					
	> 150%, 1 min					
Frequency Regulation	50 / 60Hz ± 0.1%					
Synchronized Range	Default Range : ± 5 Hz					
Synchronized Slew Rate	Default Range : 1 Hz/s					
Battery And Charger						
Battery Voltage	10-80K(120/208VAC) : 192VDC, 12V-16 pcs as one set 10-120K(220/380VAC) : 360VDC, 12V-30 pcs as one set					
Charger Voltage precision	1%					
Charger Power	Battery 16 pcs-220VDC, Battery 30 pcs-410VDC, Battery 32 pcs-435 VDC Current: Depending on the model used 1.5, 2.5, 3, 5, 10, 15, 20, 30, 40, 50A Options and Automatic Current Limiting Function can be set					
Bypass Input						
Voltage	190 / 200 / 208 / 220 / 380 / 400 / 415 / 440 VAC (Line-Line)					
Voltage Range	152 - 528 VAC (Line-Line)					
Frequency	50 / 60 Hz					
Frequency Range	45 - 65 Hz					
Bypass Overload	> 100%, 30 min					
	> 125%, 10 min					
	> 150%, 1 min					
Efficiency						
Normal Operation	> 85 %		> 86 %		> 88 %	
Battery Operation	> 87 %		> 88 %		> 90 %	
Static Transfer Switch						
Inverter to Bypass	0 ms					
Bypass to Inverter	0 ms					
Transfer Efficiency	> 99%					
Environmental						
Operation Temperature	0 - 40°C					
Storage Temperature	-15 - 60°C					
Relative Humidity	0 - 95% (Non condensing)					
Noise (1m from surface)	Less than 60 dBA					
Altitude	Normal Load: <1000m					
	Load derated 1% per 100m From 1000 to 2000m					
Physical Data						
Dimension (WxDxH) (mm)	530 x 859 x 1010				810 x 810 x 1900	
Weight (kg) (Without Battery)	310	340	368	398	515	567
Alarm						
Event Log	Detail UPS status description not use error code, record item number of event max 2400					
Network	Network connection port (10/100 Base. T) and remote monitoy control, not use SNMP card.					
Dry Contact	Max item: 20 status, programmable select: 4 item					
System						
Display	7" TFT LCD Touch Screen Indicator					
Interface	Standard : RS232 / RS485 / Dry Contact					
	Optional : SNMP					
Other Function	Standard : Battery Cold Start					
	Optional : Parallel Kit					

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

ONL II-33 Series

Three Phase professional UPS are the best choice for industrial usage.

- Three Phase Power UPS
- DSP (Digital Signal Processor) Control
- IGBT Modular Design
- Generator Compatible
- Dry Contact Function
- Isolation Transformer
- Human Voice Alarm System
- Industrial Usage



ONL II-80K33-120K33

ONL II-160K33-250K33

Specifications

	Model	ONL II-80K33	ONL II-100K33	ONL II-120K33	ONL II-160K33	ONL II-200K33	ONL II-250K33
Capacity							
Capacity (VA)		80 KVA	100 KVA	120 KVA	160 KVA	200 KVA	250 KVA
Capacity (Watts)		64 KW	80 KW	96 KW	128 KW	160 KW	200 KW
Phase		Three Phase					
Main Input							
Grid System		3 Phases + Neutral + Ground					
Voltage		190 / 200 / 208 / 220 / 380 / 400 / 415 / 440 VAC (Line-Line)					
Voltage Range		152 - 528 VAC (Line-Line)					
Frequency		50 / 60Hz (Auto Sensing)					
Frequency Range		45 - 65Hz					
Output							
Inverter Voltage		190 / 200 / 208 / 220 / 380 / 400 / 415 / 440 VAC (Line-Line)					
Inverter Frequency		50 / 60Hz					
Output Power Factor		0.8 - 1.0 Lagging					
Voltage Precision		±1.0% (100% Linear Load)					
Transient Response		Linear Load 0-100 % < 5%					
Transient Recovery		±2.0% < 50 ms					
Output THDv		<3% (Linear Load)					
Inverter Overload		> 100%, 30 min > 125%, 10 min > 150%, 1 min					
Frequency Regulation		50 / 60Hz ± 0.1%					
Synchronized Range		Default Range : ± 5 Hz					
Synchronized Slew Rate		Default Range : 1 Hz/s					
Battery And Charger							
Battery Voltage		80K(120/208VAC) : 192VDC, 12V-16 pcs one set 80-120K(220/380VAC) : 360VDC, 12V-30 pcs as one set			160K-250K(220/380VAC) : 384V, 12V-32 pcs as one set		
Charger Voltage precision		1%					
Charger Power		Battery 16 pcs-220VDC, Battery 30 pcs-410VDC, Battery 32 pcs-435 VDC Current: Depending on the model used 1.5, 2.5, 3, 5, 10, 15, 20, 30, 40, 50A Options and Automatic Current Limiting Function can be set					
Bypass Input							
Voltage		190 / 200 / 208 / 220 / 380 / 400 / 415 / 440 VAC (Line-Line)					
Voltage Range		152 - 528 VAC (Line-Line)					
Frequency		50 / 60Hz					
Frequency Range		45Hz to 65Hz					
Bypass Overload		> 100%, 30 min > 125%, 10 min > 150%, 1 min					
Efficiency							
Normal Operation		> 89 %			> 90 %		
Battery Operation		> 91 %			> 92 %		
Static Transfer Switch							
Inverter to Bypass		0 ms					
Bypass to Inverter		0 ms					
Transfer Efficiency		> 99%					
Environmental							
Operation Temperature		0 - 40°C					
Storage Temperature		-15 - 60°C					
Relative Humidity		0 - 95% (Non condensing)					
Noise (1m from surface)		Less than 60 dBA					
Altitude		Normal Load: <1000m Load derated 1% per 100m From 1000 to 2000m					
Physical data							
6P	Dimension (WxDxH) (mm)	810 x 810 x 1900 (220/380VAC)			1400 x 1000 x 1800 (220/380VAC)		
	Weight (kg) (Without Battery)	677	680	730	1035	1055	1075
12P	Dimension (WxDxH) (mm)	1300 x 810 x 1900 (220/380VAC)			1400 x 1000 x 1800 (220/380VAC)		
	Weight (kg) (Without Battery)	810	860	910	1035	1055	1075
Alarm							
Event Log		Detail UPS status description not use error code, record item number of event max 2400					
Network		Network connection port (10/100 Base. T) and remote monitoy control, not use SNMP card.					
Dry Contact		Max item: 20 status, programmable select: 4 item					
System							
Display		7" TFT LCD Touch Screen Indicator					
Interface		Standard : RS232 / RS485 / Dry Contact Optional : SNMP					
Other Function		Standard : Battery Cold Start Optional : Parallel Kit					

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

VGD II-33 Series

VGD three phase UPS with variety collocation for electronic protection.

- Three Phase Power UPS
- High Power Density
- Isolated Transformer (Option)
- LCD Touch Screen
- Dust-Proof Capability
- N+X Parallel Redundancy
- Efficiency Heat Dissipation
- Industrial Usage



VGD II-10K-40K33

Specifications

Model	VGD II 10K33	VGD II 15K33	VGD II 20K33	VGD II 30K33	VGD II 40K33
Capacity					
Capacity (VA)	10 KVA	15 KVA	20 KVA	30 KVA	40 KVA
Capacity (Watts)	10 KW	15 KW	18 KW	27 KW	36 KW
Main Input					
Grid System	3 Phases + Neutral + Ground				
Voltage	380 / 400 / 415VAC (Line-Line)				
Voltage Range	Full Load : 304 to 478VAC (Line-Line) Other : 228 to 478VAC (Line-Line) (load decreases linearly according to the min phase voltage)				
Frequency	50 / 60Hz				
Frequency Range	40Hz to 70Hz				
Power Factor	>0.99				
Current THDi	<4% (full Linear Load)		<3% (full Linear Load)		
Output					
Inverter Voltage	380 / 400 / 415VAC (Line-Line)				
Inverter Frequency	50 / 60Hz				
Output Power Factor	1		0.9		
Voltage Precision	±1.5% (0-100% Linear Load)				
Transient Response	<5% for step load (20% -> 80% -> 20%)				
Transient Recovery	< 30ms for step load (0% -> 100% -> 0%)				
Output THDv	<1% (linear load) <5.5% (non-linear load) according to IEC/EN62040-3		<6 (non-linear load) according to IEC/EN62040-3		
Inverter Overload	100% to 110%, 60min 110% to 125%, 10min 125% to 150%, 1min				
Frequency Regulation	50 / 60Hz ±0.1%				
Synchronized Range	Default Range : ±3 Hz Settable Range : ±0.5 Hz to ±5 Hz				
Synchronized Slew Rate	Default Range : 0.5 Hz/s Settable Range : 0.5 Hz/s to 3 Hz/s				
Battery And Charger					
Battery Voltage	±240VDC (12V 20+20pcs)				
Charger Voltage Precision	1%				
Charger Power	MAX = 20% System Power				
Bypass Input					
Voltage	380 / 400 / 415VAC (Line-Line)				
Voltage Range	Default : -20% to +15% Selectable Upper Limit : +10%, +15%, +20%, +25% Selectable Lower Limit : -10%, -15%, -20%, -30%, -40%				
Frequency	50 / 60Hz				
Frequency Range	Selectable Range: ± 1Hz, ± 3Hz, ± 5Hz				
Bypass Overload	125% Long Time Operation 125% to 130% for 10min 130% to 150% for 1min				
Efficiency					
Normal Operation	95.0% MAX		>95%		>96%
Battery Operation	94.5% MAX		>95%		>96%
Static Transfer Switch					
Inverter to Bypass	0 ms				
Bypass to Inverter	0 ms				
Transfer Efficiency	> 99%				
Environmental					
Operation Temperature	0 - 40°C				
Storage Temperature	-40 - 70°C				
Relative Humidity	0 - 95% (Non condensing)				
Noise (1m from surface)	58dB @ 100% load / 52dB @ 45% load		65dB @ 100% load / 62dB @ 45% load		
Altitude	Normal Load: <1000m Load derated 1% per 100m From 1000 to 2000m				
Physical Data					
Dimension (WxDxH) (mm)	250 x 840 x 715	250 x 840 x 715	350 x 738 x 1335	350 x 738 x 1335	500 x 840 x 1400
Weight (kg) (Without Battery)	51.5	51.5	89	89	140
System					
Display	LED & LCD Touch Screen				
Interface	Standard : RS232 / RS485 Optional : SNMP / Dry Contact				
Other Function	Standard : Battery Cold Start Optional : Parallel Kit				

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

VGD II-33 Series

VGD three phase UPS with variety collocation for electronic protection.



VGD II-60K-120K33

- Three Phase Power UPS
- High Power Density
- Isolated Transformer (Option)
- LCD Touch Screen
- Dust-Proof Capability
- N+X Parallel Redundancy
- Efficiency Heat Dissipation
- Industrial Usage

Specifications

Model	VGD II 60K33	VGD II 80K33	VGD II 90K33	VGD II 100K33	VGD II 120K33
Capacity					
Capacity (VA)	60 KVA	80 KVA	90 KVA	100 KVA	120 KVA
Capacity (Watts)	54 KW	72 KW	81 KW	90 KW	108 KW
Main Input					
Grid System	3 Phases + Neutral + Ground				
Voltage	380 / 400 / 415VAC (Line-Line)				
Voltage Range	Full Load : 304 to 478VAC (Line-Line) Other : 228 to 478VAC (Line-Line) (load decreases linearly according to the min phase voltage)				
Frequency	50 / 60Hz				
Frequency Range	40Hz to 70Hz				
Power Factor	>0.99				
Current THDi	<3% (full Linear Load)				
Output					
Inverter Voltage	380 / 400 / 415VAC (Line-Line)				
Inverter Frequency	50 / 60Hz				
Output Power Factor	0.9				
Voltage Precision	±2% (0-100% Linear Load)				
Transient Response	<5% for step load (20% -> 80% -> 20%)				
Transient Recovery	< 30ms for step load (0% -> 100% -> 0%)				
Output THDv	<1.5% (linear load) <6% (non-linear load) according to IEC/EN62040-3				
Inverter Overload	100% to 110%, 60min 110% to 125%, 10min 125% to 150%, 1min Over 150% , 200ms				
Frequency Regulation	50 / 60Hz ±0.1%				
Synchronized Range	Default Range : ±3 Hz Settable Range : ±0.5 Hz to ±5 Hz				
Synchronized Slew Rate	Default Range : 0.5 Hz/s Settable Range : 0.5 Hz/s to 3 Hz/s				
Battery And Charger					
Battery Voltage	±240VDC (12V 20+20pcs)				
Charger Voltage precision	1%				
Charger Power	MAX = 20% System Power				
Bypass Input					
Voltage	380 / 400 / 415VAC (Line-Line) Default : -20% to +15%				
Voltage Range	Selectable Upper Limit : +10%, +15%, +20%, +25% Selectable Lower Limit : -10%, -15%, -20%, -30%, -40%				
Frequency	50 / 60Hz				
Frequency Range	Selectable Range: ± 1Hz, ± 3Hz, ± 5Hz				
Bypass Overload	125% for Long Time Operation 125% to 130% for 10min 130% to 150% for 1min Over 150% for 300ms				
Efficiency					
Normal Operation	>95%	>96%	>95%	>96%	>95%
Battery Operation	>95%	>96%	>95%	>96%	>95%
Static Transfer Switch					
Inverter to Bypass	0 ms				
Bypass to Inverter	0 ms				
Transfer Efficiency	> 99%				
Environmental					
Operation Temperature	0 - 40°C				
Storage Temperature	-40 - 70°C				
Relative Humidity	0 - 95% (Non condensing)				
Noise (1m from surface)	65dB @ 100% load / 62dB @ 45% load				
Altitude	Normal Load: <1000m Load derated 1% per 100m From 1000 to 2000m				
Physical data					
Dimension (WxDxH) (mm)	600 x 980 x 950	600 x 980 x 1150	600 x 980 x 1400	600 x 980 x 1150	600 x 980 x 1400
Weight (kg) (Without Battery)	170	210	231	210	266
System					
Display	Standard : LED & LCD Touch Screen				
Interface	Standard : RS232 / RS485 / USB / Programmable Dry Contact Optional : SNMP				
Protections	Optional : Lightning Protection Components / Dust Filter				
Other Function	Optional : Battery Cold Start / Parallel Kit / Load Bus Synchronization				

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

VGD II-33 Series

VGD three phase UPS with variety collocation for electronic protection.

- Three Phase Power UPS
- High Power Density
- Isolated Transformer (Option)
- LCD Touch Screen
- Dust-Proof Capability
- N+X Parallel Redundancy
- Efficiency Heat Dissipation
- Industrial Usage



VGD II-150K-500K33

Specifications

Model	VGD II 150K33	VGD II 200K33	VGD II 250K33	VGD II 300K33	VGD II 400K33	VGD II 500K33
Capacity						
Capacity (VA)	150 KVA	200 KVA	250 KVA	300 KVA	400 KVA	500 KVA
Capacity (Watts)	135 KW	180 KW	225 KW	270 KW	360 KW	450 KW
Main Input						
Grid System	3 Phases + Neutral + Ground					
Voltage	380 / 400 / 415VAC (Line-Line)					
Voltage Range	Full Load : 304 to 478VAC (Line-Line) Other : 228 to 478VAC (Line-Line) (load decreases linearly according to the min phase voltage)					
Frequency	50 / 60Hz					
Frequency Range	40Hz to 70Hz					
Power Factor	>0.99					
Current THDi	<3% (full Linear Load)					
Output						
Inverter Voltage	380 / 400 / 415VAC (Line-Line)					
Inverter Frequency	50 / 60Hz					
Output Power Factor	0.9					
Voltage Precision	±2% (0-100% Linear Load)					
Transient Response	<5% for step load (20% -> 80% -> 20%)					
Transient Recovery	< 30ms for step load (0% -> 100% -> 0%)					
Output THDv	< 1.5% (linear load) <6% (non-linear load) according to IEC/EN62040-3					
Inverter Overload	100% to 110%, 60min 110% to 125%, 10min 125% to 150%, 1min Over 150%, 200ms					
Frequency Regulation	50 / 60Hz ±0.1%					
Synchronized Range	Default Range : ±3 Hz Settable Range : ±0.5 Hz to ±5 Hz					
Synchronized Slow Rate	Default Range : 0.5 Hz/s Settable Range : 0.5 Hz/s to 3 Hz/s					
Battery And Charger						
Battery Voltage	±240VDC (12V 20+20pcs)					
Charger Voltage precision	1%					
Charger Power	MAX = 20% System Power					
Bypass Input						
Voltage	380 / 400 / 415VAC (Line-Line)					
Voltage Range	Default : -20% to +15% Selectable Upper Limit : +10%, +15%, +20%, +25% Selectable Lower Limit : -10%, -15%, -20%, -30%, -40%					
Frequency	50 / 60Hz					
Frequency Range	Selectable Range: ± 1Hz, ± 3Hz, ± 5Hz					
Bypass Overload	125% for Long Time Operation 125% to 130% for 10min 130% to 150% for 1min Over 150% for 300ms		110% for Long Time Operation 110% to 125% for 5min 125% to 150% for 1min Over 150% for 1s			
Efficiency						
Normal Operation	>96%					
Battery Operation	>96%					
Static Transfer Switch						
Inverter to Bypass	0 ms					
Bypass to Inverter	0 ms					
Transfer Efficiency	> 99%					
Environmental						
Operation Temperature	0 - 40°C					
Storage Temperature	-40 - 70°C					
Relative Humidity	0 - 95% (Non condensing)					
Noise (1m from surface)	65dB @ 100% load / 62dB @ 45% load					
Altitude	Normal Load: <1000m Load derated 1% per 100m From 1000 to 2000m					
Physical data						
Dimension (WxDxH) (mm)	650 x 960 x 1600	650 x 960 x 1600	650 x 960 x 2000	650 x 960 x 2000	1300 x 1100 x 2000	1300 x 1100 x 2000
Weight (kg) (Without Battery)	305	350	445	490	810	900
System						
Display	Standard : LED & LCD Touch Screen					
Interface	Standard : RS232 / RS485 / USB / Programmable Dry Contact Optional : SNMP					
Protections	Optional : Lightning Protection Components / Dust Filter					
Other Function	Optional : Battery Cold Start / Parallel Kit / Load Bus Synchronization					

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

ONL- M Series

Modular three phase UPS provide full-protection for industrial usage.

- Three Phase Power UPS
- Modular UPS Design
- Large Input Voltage Range
- Dry Contact Function
- Generator Compatible
- Power Factor 1.0 Output
- N+X Parallel Redundancy
- Business Usage



ONL-M-30U-40U

Specifications

Model	ONL-M 30U-90	ONL-M 42U-120	ONL-M 30U-120	ONL-M 30U-180	ONL-M 42U-210	ONL-M 42U-300
Capacity						
Max. Capacity (VA)	90 K	120 K	120 K	180K	210K	300K
Max. Capacity (Watts)	90 K	120 K	120 K	180K	210K	300K
One Power Module Capacity	30KVA / 30KW or 20KVA / 20KW					
Max. Power Module No.	3	4	4	6	8	10
Power Factor**	1	1	1	1	1	1
Main Input						
Grid System	3 Phases + Neutral + Ground					
Voltage	380 / 400 / 415VAC (Line-Line)					
Voltage Range	304 to 478VAC : Full Load (Line-Line) 208 to 478VAC : <70% Load (Line-Line) (load decreases linearly according to the min phase voltage)					
Frequency	50/60Hz (Auto sensing)					
Frequency Range	40 - 70 Hz					
Power Factor	> 0.99 at 100% load > 0.98 at 50% load					
THDi	< 3% at Full Linear Load					
Output						
Inverter Voltage	380 / 400 / 415VAC (Line-Line)					
Inverter Frequency	50/60Hz					
Output Power Factor	Typical 1.0					
Voltage Precision	≤ ± 1% Typical (0-100% balanced Linear Load)					
Transient Response	≤ ± 5% Typical					
Transient Recovery	<100ms Recover to 90 % of Nominal Voltage					
Output THDv	≤ 2% (Linear Load), ≤ 4% (Non-Linear Load)					
Inverter Overload	105% to 110%, 60 min / 110% to 125%, 10 min / 126% to 150%, 1 min / over 150%, 200ms					
Frequency Regulation	Default : 50/60Hz ± 0.1%					
Synchronized Range	Default Range : ± 4Hz, Settable Range : ± 1Hz, ± 2Hz, ± 4Hz					
Synchronized Slow Rate	1Hz / s					
Battery And Charger						
Battery Type	Internal		External Battery			
Max. Battery Set No.**	3	5				
Battery Voltage	Nominal Voltage : ± 216V (12V 18+18 Pcs) Minimum Voltage : ± 192V (12V 16+16 Pcs) Maximum Voltage : ± 240V (12V 20+20 Pcs)					
Charger Voltage precision	1%					
Charger Power	8A for each power module (User-adjustable)					
Floating Charge Voltage	2.3V/Cell					
Boost Charging Voltage	2.35V/Cell					
Temperature Compensation	Yes					
Bypass Input						
Voltage	380 / 400 / 415 VAC (Line-Line) Default : -20% to +15%					
Voltage Range	Selectable Upper Limit : +10%, +15%, +20% Selectable Lower Limit : -10%, -20%, -30%					
Frequency	50 / 60 Hz Default : ± 4Hz					
Frequency Range	Settable Range : ± 1Hz, ± 2Hz, ± 4Hz					
Bypass Overload	105% to 110%, 60 min 111% to 125%, 10 min 126% to 150%, 1min Over 150%, 200ms					
Efficiency						
Normal Operation	over 50% Load : >94.5%					
Battery Operation	over 50% Load : >94.5%					
Static Transfer Switch						
Inverter to Bypass	Synchronous transfer: 0ms Asynchronous transfer: < 1 cycle					
Bypass to Inverter	Bypass to Inverter 0 ms ECO to Inverter Mode < 20 ms					
Transfer Efficiency	98%					
Environmental						
Operation Temperature	0 - 40°C					
Storage Temperature	-15°C - 60°C					
Relative Humidity	0 - 95% non-condensing					
Noise (1m from surface)	4 Power Modules : < 70dB 8 Power Modules : < 73dB					
Altitude	<1000m for Nominal power					
IP Class	IP 20					
Physical Data						
Dimension (WxDxH) (mm)	600 x 1100 x 1475	600 x 1100 x 2010	600 x 1100 x 1475	600 x 1100 x 1475	600 x 1100 x 2010	600 x 1100 x 2010
Weight (kg)	301.5	344	197	230.5	273	275
System						
Display	Standard : LED & 5.7" LCD Optional : 10" Color Touch Screen					
Interface	Standard : RS232 / USB (Windows 2000/2003/XP/Vista/2008/7/8/10) Optional : SNMP					
Other Function	Standard : Battery Cold Start Optional : SNMP card, AS 400, MOD Bus, Extra Comm.					
Standards						
Safety	IEC/EN 60950-1; IEC/EN 62040-1					
EMC	IEC/EN 62040-2 Category C3					

** Three Phase Modular UPS, Power module base Output P.F=1 @ 0 ~ 30°C, Output P.F=0.9 @ 31 ~ 35°C, Output P.F=0.8 @ 36 ~ 40°C

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

HI-AVR Series

High frequency AR series provide stable voltage for electronic application.

- Automatic Voltage Regulator (AVR)
- Large Input Voltage Range
- EMI Noise Filtration
- Energy Saving Green Topology
- Clear and LCD Indicator
- Output Power Full Protection



Specifications

Model	AR-5000	AR-7500	AR-10K	AR-15K	AR-20K
Power Rating	3.5 KW	5.25 KW	7 KW	10.5 KW	14 KW
AC Input					
Frequency	50Hz or 60Hz				
Voltage	1φ 2W				
Range	110V: ± 15% 220V: ± 25%				
AC Output					
Voltage	1φ 2W				
Voltage Regulation	± 1 %				
Frequency	50 Hz / 60 Hz Following input				
Efficiency	> 95 %				
Power Factor	± 0.7				
Distortion	< 3% of T.H.D. at Linear Load				
AVR					
Operation	SPWM (Sinewave Plus Width Modulation)				
Component	IGBT				
Operation Frequency	20 kHz				
Protection					
Full Protection	Output over/under Voltage, Overload, Surge				
Maintenance	Manual Bypass Switch (Option)				
Management & Communication					
Indicator	LCD Indicator				
Physical					
Dimension (WxDxH) (mm)	392 x 244 x 342				280 x 420 x 390
Weight (kgs)	15	24	28	32	40
Environment					
Operating Humidity	0-95 % RH at 0-40°C (Non-condensing)				
Audible Noise	Less than 45 dB			Less than 50 dB	

* Specifications are subject to change without further notice.

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HI-AVR 33 Series

High quality three phase series are the best AVR for electronic device.

- Automatic Voltage Regulator (AVR)
- Three Phase Output
- Large Input Voltage Range
- EMI Noise Filtration
- Energy Saving Green Topology
- Output Power Full Protection



AR-15K-30K

Specifications

Model	AR-15K33	AR-30K33
Power Rating	10.5 KW	21 KW
AC Input		
Frequency	50Hz or 60Hz	
Voltage	1φ 2W	
Range	110V: ± 15% 220V: ± 25%	
AC Output		
Voltage	1φ 2W	
Voltage Regulation	± 1 %	
Frequency	50 Hz / 60 Hz Following input	
Efficiency	> 95 %	
Power Factor	0.7	
Distortion	< 3% of T.H.D. at Linear Load	
AVR		
Operation	SPWM (Sinewave Plus Width Modulation)	
Component	IGBT & MOSFET	
Operation Frequency	20 kHz	
Protection		
Full Protection	Output over/under Voltage, Overload, Surge	
Maintenance	Manual Bypass Switch (Option)	
Management & Communication		
Indicator	LCD Indicator	
Physical		
Dimension (WxDxH) (mm)	258 x 562 x 679	
Weight (kgs)	69.5	96
Environment		
Operating Humidity	0-95 % RH at 0-40°C (Non-condensing)	
Audible Noise	Less than 45 dB	Less than 50 dB

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* Specifications are for reference, please refer to information based on real product.

TAP-CHANGE AVR Series

Excellent automatic voltage stabilizer provide high quality voltage output.

- Automatic Voltage Regulator (AVR)
- Output Power Full Protection
- High Power Efficiency
- Wide Input Voltage Range
- Simple LED Indicator
- Compact Size Design



TCA-600-3000

Specifications

Model	TCA-600	TCA-1200	TCA-2000	TCA-3000
Power Rating	300 W	600 W	1000 W	1500 W
Phase	Single Phase			
AC Input				
Frequency	50Hz or 60Hz			
Voltage	1φ 2W			
Range	110 / 120 Vac ± 15% 220 / 230 / 240 Vac ± 15%			
AC Output				
Voltage	1φ 2W			
Voltage Regulation	110 / 120 Vac ± 5% (Typical) 220 / 230 / 240 Vac ± 5% (Typical)			
Frequency	50 Hz / 60 Hz Following input			
Efficiency	> 95 %			
Protection				
Full Protection	Overload, Short Circuit, Surge			
Tel Communication	RJ11 / RJ45 (Option)			
Management & Communication				
Indicator	LED Panel			
Physical				
Dimension (WxDxH) (mm)	123 x 136 x 102			
Weight (kgs)	1.45	1.6	1.8	2.1
Shipping Dimension (WxDxH) (mm)	145 x 195 x 120			
Shipping Weight (kgs)	1.65	1.8	2	2.3
Environment				
Operating Humidity	0-95 % RH at 0-40°C (Non-condensing)			
Audible Noise	Less than 40 dB			

* Specifications are subject to change without further notice.

* Specifications are for reference, please refer to information based on real product.

Inverter Charger Hi-Frequency

Light appearance ICH series power up electronic application efficiency.

- High Efficiency Inverter Series
- Advance Digital Microprocessor Control
- Cold Start Function
- Output Power Full Protection
- Overload, Surge, Short Circuit Protection



ICH-550-1050

Specifications

Model	ICH-550	ICH-1050
Configuration		
Capacity (VA)	550 VA	1050 VA
Capacity (Watts)	330 W	630 W
INPUT		
Nominal Voltage	120 or 230 VAC	
Voltage Range	90 - 144 VAC or 170 - 285 VAC	
Frequency Range	50 Hz / 60 Hz ± 10% Hz (Auto Sensing)	
Output (On Battery)		
Voltage	120 or 230 VAC	
Frequency Range	50 Hz / 60 Hz ± 0.5 Hz	
Waveform	Stimulated Sine Wave	
Efficiency		
AC to AC	> 95 %	
DC to DC	> 80 %	
Protection		
Full Protection	Overload, Short Circuit, Thermal	
Management & Communication		
Indicator	LED indicator	
Physical		
Dimension (WxDxH) (mm)	83 x 274 x 224	
Weight (kgs)	1.7	1.9
Shipping Dimension (mm)	123 x 305 x 292	
Shipping Weight (kgs)	1.8	2
Alarm		
Overload	Continuous Beeping	
Battery Mode	Beep every 4 seconds	
Low Battery	Beep every 0.5 second	
Environment		
Operating Humidity	0-95 % RH at 0-40°C (Non-condensing)	
Audible Noise	Less than 40 dB	

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

● INVERTER

INFINITY Series

Extra battery connectable INF series prolongs power back-up time.

- High Efficiency Inverter Series
- Pure Sinewave Output
- Automatic Voltage Regulator (AVR)
- Battery Connect Extendable
- Clear and LCD Indicator
- Overload, Surge, Short Circuit Protection



INF-500-1500

Specifications

Model	INF-500A INF-500AP	INF-800A INF-800AP	INF-1100A INF-1100AP	INF-1500A INF-1500AP
Configuration				
Capacity (VA)	500 VA	800 VA	1100 VA	1500 VA
Capacity (Watts)	300 W	480 W	770 W	1050 W
Form	Tower Type			
Input				
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC			
Input Voltage Range	70 - 150 or 140 - 300 VAC			
Input Frequency Range	50 Hz / 60 Hz (Auto Sensing)			
Output				
Waveform	Pure Sine Wave			
Voltage	100 / 110 / 120 VAC or 220 / 230 / 240 VAC			
Frequency	50 Hz / 60 Hz ± 1 Hz			
Transfer Time	2 - 4 ms (Typical)			
Protection				
Full Protection	Overload, Fuse, Surge, Short Circuit			
Management & Communication				
Indicator	LCD Panel			
Communication Port	USB B type : AP Model			
Physical				
Dimensions (WxDxH) (mm)	130 x 412 x 200			
Weight (kgs)	5.8	7.2	10.8	12.2
Shipping Dimensions (mm)	253 x 488 x 321			
Shipping Weight (kgs)	7.3	8.7	12.3	13.7
Alarm				
Overload / Fault	Continuous Beeping			
Battery Mode	Beep every 2 seconds			
Low Battery	Beep every 0.5 second			
Environment				
Operating Humidity	0-90 % RH at 0-40°C (Non-condensing)			
Audible Noise	Less than 50 dB			
Battery (Recommand Form)				
Voltage	12 VDC		24 VDC	
Battery Capacity	65 Ah - 200 Ah		100 Ah - 200 Ah	
Maximum Charge Current	10 A		15 A	
Discharge Protection	Auto Diagnostics, Over- Discharge, Shot Circuit, Fuse			

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

OUTPUT RECEPTACLE OPTION



INVERTER RM Series

Thin outfit INV series DC to AC transform inverter application.

- High Efficiency Inverter Series
- Pure Sinewave Output
- 1U model design
- Clear and LCD Indicator
- External Battery connectable



INV-700-1000

Specifications

Model	INV - 700 RM	INV - 1000 RM
Configuration		
Capacity (VA)	700 VA	1000 VA
Capacity (Watts)	490 W	700 W
Input(DC)		
Nominal Voltage	± 48 VDC	
Voltage Range	± 40 - 56 VDC	
Frequency Range	50 Hz / 60 Hz (Auto Sensing)	
Output		
Voltage	100 / 110 / 115 / 120 / 127 VAC or 208 / 220 / 230 / 240 VAC	
Voltage Regulation	± 2 %	
Frequency Range	50 Hz / 60 Hz ± 0.5 Hz	
Harmonic Distortion	< 3% of T.H.D. at linear load	
Power Factor	0.7	
Waveform	Pure Sine Wave	
Efficiency		
DC to AC	> 82%	
Protection		
Full Protection	Overload, Short Circuit, Over Temperature	
Management & Communication		
Indicator	LCD Panel	
Physical		
Dimension (WxDxH) (mm)	428 x 525 x 44	
Weight (kgs)	10	
Shipping Dimension (mm)	547 x 465 x 168	
Shipping Weight (kgs)	11	
Management & Communication		
Communication Port	RS231, USB B type	
Alarm		
Low Condition	2 Beep every 5 seconds	
Fault	Continuous Beeping	
Environment		
Operating Humidity	0-95 % RH at 0-40°C (Non-condensing)	
Audible Noise	Less than 45 dB	

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OUTPUT RECEPTACLE OPTION



TYPE B



TYPE IEC

Solar King

SLK series lighten up home and office through sunshine transformation.

POWERCOM Solar King, the most advanced grid PV-inverter in the world. Converting sun light into electricity energy for home/industrial applications, and powering up our world with free solar energy is now no longer just a dream.



SLK-3000

Specifications

Model	SLK-1500	SLK-2000	SLK-3000	SLK-4000	SLK-6000
Input					
Maximum Input Power	1750W	2340W	3510W	4700W	6500W
PV Open Voltage	500VDC				600VDC
Normal DC Voltage	360V				
MPPT Voltage Range	150 to 500VDC ± 5%				150 to 600VDC ± 5%
System Start-up Voltage	100 ± 5%				
Working Voltage	100 ± 5% to 500 - 5% + 0%V				100 ± 5% to 600 - 5% + 0%V
Initial Feeding Voltage	150V ± 5%				
Max Input Current	10ADC	11ADC	17.6ADC	18.8ADC	30ADC
Full Rating Working Range	200V to 500V			250V to 500V	205V to 600V
Shutdown Voltage	80V				
DC Voltage Ripple	< 10%				
DC Insulation Resistance	> 8M ohm				
DC Switch	ON / OFF 20A				ON / OFF 30A
Attached DC Connector	Tyco or MC4 contact(1 pair)				
DC Connector	Tyco or MC4 contact(1 pair)-cable type			Tyco or MC4 contact(3 pair)	
Output					
Normal Output Power	1500 W	2000 W	3000 W	4000 W	6000 W
Maximum Output Power	1650 W	2200 W	3300 W	4400 W	6000 W
Operational Voltage Range	184V minimum ; 264V maximum				
Operational Normal Voltage	230Vac				
Operational Frequency Range	50 / 60Hz auto selection, 47.5 ≤ f50 ≤ 53 for 50Hz, 57 ≤ f60 ≤ 63 for Hz				
Normal Output Current	6.6A	8.7A	13.0A	17.4A	26.1A
O / P Current Distortion	THD < 4%, each harmonics < 3%				
Power Factor	> 0.99				
DC Current Injection	< 0.5% of rated inverter output current				
Internal Power Consumption	< 7W				< 10W
Standby Power(at night)	< 0.1W				
Minimum Conversion Efficiency (DC/AC)	> 90% under input voltage > 210V, load > 20%				
Maximum Conversion Efficiency (DC/AC)	> 94%	> 95%		> 96%	
European Efficiency	> 93%	> 94%		> 95%	
GFCI Threshold	See ground fault current detection				
Ground Current Detection Range	0 to 500mA				
Ground Current Detection Frequency	0 to 700Hz				
Environment					
Protection Degree	IP 65				
Operation Temperature	- 20°C to +55°C				
Humidity	0 to 95%, non-condensing				
Heat Dissipation	Convection				
Acoustic Noise Level	< 40 dB, A-weighted, frequency up to 20k Hz				
Altitude	Up to 3000m without power derating, 5°C derated for each additional 500m				
Physical					
Dimension W x D x H (mm)	352 x 300 x 133		352 x 300 x 143	550 x 300 x 133	550 x 420 x 143
Weight (kgs)	14	14	14	21	27

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

DC UPS Series

Extraordinary DC UPS provide DC output for electronic application.

- DC Output UPS Design
- Wide Input Voltage Range
- Cold Start Function
- Energy Saving Green Topology
- Overload, Surge, Short Circuit Protection



DC - 9V-48V

Specifications

Model	DC 12V	DC 18V	DC 24V	DC 48V
Configuration				
Capacity (Watts)	30 W	30 W	30 W	30 W
Input				
Voltage Range	86 V - 276 V (VAC or VDC)			
Frequency Range	50 Hz / 60 Hz			
Output (On Battery)				
Voltage Regulation	± 15 %	± 10 %	± 10 %	± 10 %
Transfer Time (ms)	5			
Battery				
Type	12V 5Ah	12V 5Ah	12V 5Ah	12V 5Ah
Number	1	1	1	1
Typical Recharge Time	8 hrs to 90 % Capacity			
Protection				
Full Protection	Overload, Short Circuit			
Tele Communication	RJ11 / RJ45			
Physical				
Dimension (WxDxH) (mm) †	267 x 155 x 64			
Weight (kgs)	2.4			
Shipping Dimension (mm)	359 x 198 x 79			
Shipping Weight (kgs)	2.6			
Management & Communication				
Indicator	LED Indicator			
Alarm				
Overload	Continuous Beeping			
Battery Mode	Beep every 4 seconds			
Low Battery	Beep every 0.5 seconds			
Environment				
Operating Humidity	0-95 % RH at 0-40°C (Non-condensing)			
Audible Noise	Less than 40 dB			

* Specifications are subject to change without further notice.

* Specifications are for reference, please refer to information based on real product.

Traffic Control Series

Wide temperature endurance adaptable for outdoor UPS.

- Line Interactive UPS Design
- Pure Sinewave Output
- Wide Operate Environment Acceptable
- Automatic Voltage Regulator (AVR)
- Simple and Clear LCD Indicator



TC-650 / TC-1100 (2U)



TC-2000 (3U)

Specifications

Model		TC-650	TC-1100	TC-2000
Configuration				
Capacity (VA)		650 VA	1100 VA	2000 VA
Capacity (Watts)		650 W	1100 W	2000 W
Input				
Voltage		120 VAC ±25% 220/230/240VAC ±25%		
Frequency		120VAC 60Hz 220/230/240VAC 50 / 60 Hz		
Output				
Waveform		Pure Sine Wave		
Voltage		120 VAC or 220 / 230 / 240 VAC		
Frequency		50 Hz / 60 Hz ±0.5 Hz		
Transfer Time	Normal Mode (Max.)	12 ms		
	Generator Mode (Max.)	25 ms		
AC Input & Output Connectors		Terminal Block , Anderson PP45 Quick connector, IEC socket		
Protection				
Full Protection		Overload, Breaker		
Management & Communication				
Communication Port		RS232 , USB B Type, SNMP card (Option)		
Physical				
Dimensions (WxDxH) (mm)		432 x 254 x 88.6 (2U)		432 x 254 x 133 (3U)
Weight (kgs)		13		21
Shipping Dimensions (mm)		540 x 388 x 233		540 x 388 x 277
Shipping Weight (kgs)		14		23
Indicators				
LCD Display		4 Line Multi-function LCD		
LED Display		Output Status, Alarm, Fault LED		
Environmental				
Operating Temperature		-37 - +74°C		
Operating Humidity		0-95 % RH (Non-condensing)		
Audible Noise		Less than 50 dB		
Battery				
String Voltage		24 VDC		48 VDC
Type		Lead-acid Battery		
Max Charge Current		10A		

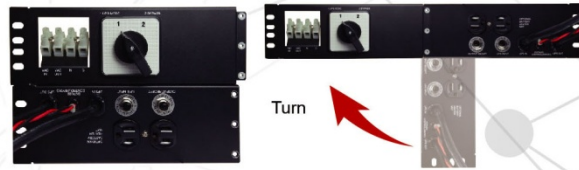
* Specifications are subject to change without further notice.

* Specifications are for reference, please refer to information based on real product.

Automatic Transfer Switch



ATS



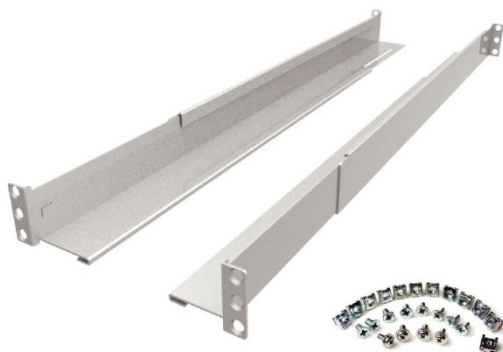
Specifications

Model		ATS			
Input					
Nominal Voltage	120 VAC / 30 A	230 VAC / 30A	230 VAC / 10A	230 VAC / 16A	
Voltage Range	100 - 130 VAC		199 - 262 VAC		
Transfer Time	Auto Transfer Switch	10 ms			
	Manual Bypass Switch	50 ms			
Connection					
Main Input	Terminal Block 4 or 6 port (Normal type),		IEC - C14	IEC - C20	
Main Output	6 or 9 port (Generator type)		IEC - C13 Receptacles	IEC - C13, C19 Receptacles	
Auxiliary Output	5 - 15R Receptacles	IEC - C13 Receptacles	IEC - C13 Receptacles	IEC - C13 Receptacles	
UPS Connection	Powercord or Terminal Block		IEC - C13 (UPS IN) IEC - C14 (UPS OUT)	IEC - C19 (UPS IN) IEC - C20 (UPS OUT)	
Physical					
Dimension (WxDxH) (mm)†	485 x 130 x 85				
Weight (kgs)	2.6				
Mounting	2U Rack Mount				
Optional					
Bypass Control (Optional)	24VDC or 48VDC or N/A				

* Specifications are subject to change without further notice.

* Specifications are for reference, please refer to information based on real product.

Rack Slide Rail



RAL-5090

Specifications

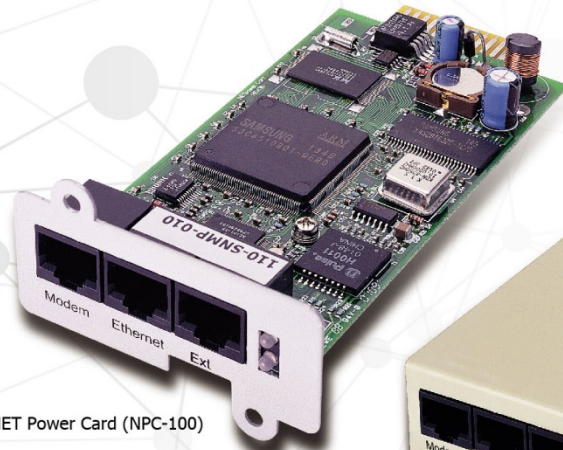
Model	RAL-5090
General	
Type	Heavy Duty Rail
Performance	
Load Capacity - Static (kg)	80
Physical	
Rack Height	1U
Rackmount Equipment	1-3U
Installation	Hardware Included
Color	Silver
Material	Cold Rolled Steel
Adjustable Mounting Depth (mm)	500 to 900
Unit Dimensions W x H x D (mm)	61 x 46 x 501
Unit Goss Weight (kg)	2.02
Unit Net Weight (kg)	1.93
Shipping Package Quantity (pcs)	16
Shipping Dimensions W x H x D (mm)	246 x 294 x 588
Shipping Weight (kg)	35.6

** Specifications are subject to change without further notice.

** Specifications are for reference, please refer to information based on real product.

.NET Power Card (NPC-100) .NET Power Box (NPB-200)

.NET Power SNMP Card / Box are well-design remote control management system.



.NET Power Card (NPC-100)



.NET Power Box (NPB-200)

.NET Power SNMP Card / Box

Excellent .NET Power SNMP Card / Box support UPS remote control, monitor and auto setting management. .NET Power SNMP brings great convenience for UPS Management. .NET Power SNMP Card / Box including UPS event scheduling, event logging, data logging and automatic event notification via UPSMON setting and Email. .NET Power SNMP Card / Box indicate instant UPS status, power quality and provide immediate action to protect server and workstation from data losing due to power failure.

Feature

- Remote Management
- Automatic Shutdown Setting
- Event Notification
- Upgrade Firmware
- Event Log
- Data Log
- Schedule Event Setting
- SNMP Network Management
- SNMP v1.0 and v2.0, RFC1213, RFC 1628 support
- Compatible with standard SNMP NMS
- Web Network Management
- HTTP 1.0 Protocol Support

Ordering Information

- .Net power Card (internal model)
Model No : NPC-100
- .Net power Box (external model)
Model No : NPB-200

Advanced .NET Power Card / Box acquire following Awards



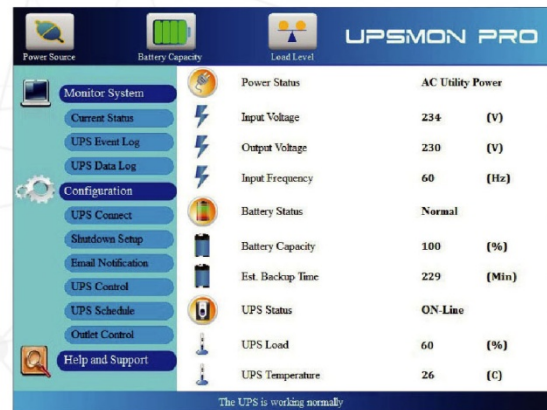
UPSMON PRO/ UPSMON Manager

User-friendly and well design UPS Monitoring Software Management.

Well-featured UPSMON Pro / UPSMON Manager indicate UPS information and UPS operating through computer. UPSMON Pro / UPSMON Manager are functional on all Powercom UPS series attached with RS232 or USB port. UPSMON Pro (single manager connect)/ UPSMON Manager (Multi-manager connect) are available on UPS schedule setting, message notification and UPS status indication. UPSMON PRO/ UPSMON Manager assist user information acquirement and react instantly.

Feature

- UPS Communication Management
- Event Control and Scheduling
- UPS Status Indication
- Instant Message Notification
- VMware Compatible
- Event Log
- Clear and Easy Operating Interface



UPSMON Interface

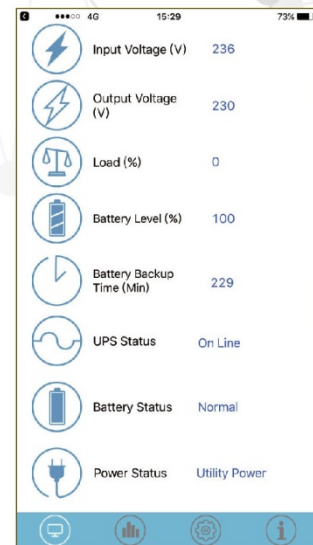
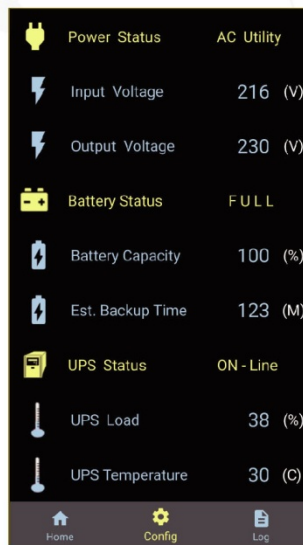
UPSMON Android / iOS

UPSMON provide Powercom series hand control management.

UPSMON APP provide an option for portable UPS management on smart phone and available on all Powercom series attached with SNMP card or UPSMON. UPSMON APP provide UPS status information and UPS control and setting. UPSMON APP build up immediate information indication and convenient UPS management for user.

Feature

- Android / iOS support
- Real-time UPS Monitor
- Schedule Action Setting
- Multiple Language Support
- Clear and Easy Operating interface



UPSMON APP Android / iOS Interface

Innovative. Smart. Reliable



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