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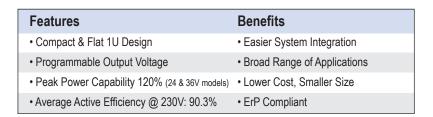








Single Output 500W Power Supplies





Specification		
Model		GWS500
AC Input Voltage	VAC	85 - 264VAC (300VAC for 5s)
Input Frequency	Hz	47 - 63Hz
DC Input Voltage	VDC	120 - 373VDC
Inrush Current (cold start)	Α	20A/40A at 115VAC, 40A/40A at 230VAC, Ta=25°C (First Inrush/Second Inrush)
Power Factor (1)	-	Meets EN61000-3-2 (Typical PF 0.98/0.95) ClassA, Class C> 35% Load
Input Current (115/230VAC)	Α	5.5 / 2.7
Temperature Coefficient	°C	<0.02%/°C (0-50°C)
Overcurrent Protection	-	Hiccup (12V model) Constant Current Limit (24V-48V models)
		>105% rated output power or >101% of peak output power
Overvoltage Protection (2)	V	12V: 13.8 - 16.2V, 24V: 30.3 - 35.5V, 36V: 41.4 - 48.6V, 48V: 60 - 69.6V
Overtemperature Protection (2)	-	Yes - Shutdown Output and Manual Reset (CNT or Re-power on)
Hold Up Time (115 / 230V input)	ms	16ms
Leakage Current (230VAC 60Hz)	mA	<0.75mA
Remote Sense	-	Yes
Remote On/Off	-	Possible (Active Low)
Standby Input Power Draw (3)	W	<0.5W
5V Standby (always on)	-	5V 0.3A
DC Good	-	DC Good, open collector signal, High on Fail
LED Indicator	-	Green LED = On
Output Remote Programming	-	By external voltage. See installation manual for details
Operating Temperature	°C	-25°C to +70°C. Derate linearly to 50% load from +50°C to +70°C (-40°C start up)
Storage Temperature	°C	-30°C to +85°C
Operating Humidity	-	30 - 90% RH (non condensing)
Storage Humidity	-	10 - 95% RH (non condensing)
Cooling	-	Forced Air by Blower Fans
Withstand Voltage	-	Input - Output : 4.25kVDC (20mA), Input - FG :2.25kVDC (20mA) Output - FG : 500VDC (100mA) For 1min.
Isolation Resistance	Ω	>100MΩ (500VDC) at 25°C & 70%RH
Vibration (non operating)	-	10 - 55Hz: 19.6m/s2 constant sweep 1 min X, Y, Z for 1 hour
Shock	-	<196.1 m/s ² (20G)
Immunity	-	Built To Meet EN61000-4-2 (Level 2,3), -3 (Level 3), -4 (Level 3), -5 (Level 3), -6 (Level 3), -8 (Level 4), -11
Safety Agency Approvals	-	IEC/EN/UL/CSA 60950-1 and IEC/EN/UL/CSA 62368-1, CE Mark
Conducted & Radiated EMI	-	EN55032-B, CISPR22-B
Weight (Typ)	g	1020
Size (L x W x H)	mm	218 x 105 x 41
Warranty	yrs	5

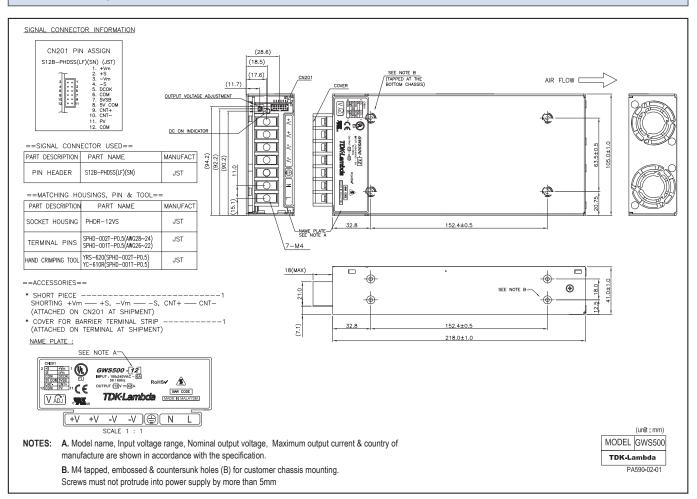
Notes: (1) 115 / 230VAC input (2) Recycle AC, or use remote on/off to reset (3) When remote off and 5V Aux supply @ no load



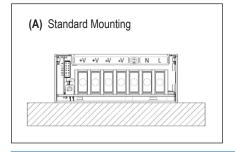
Model Selector									
Model	Voltage (V)	Adjust ² Range (V)	Max Current (A)	Peak Curr. ¹ <10s (A)	Load Reg. (mV)	Line Reg. (mV)	Ripple Noise (mV)	Efficiency (typ) % (230VAC)	
GWS500-12	12V	10.8 - 13.2	42	-	96	48	150	89	
GWS500-24	24V	22 - 28.8	21	25.0	192	96	150	90	
GWS500-36	36V	32 - 40	14	16.7	288	144	200	90	
GWS500-48	48V	42 - 57.6	10.5	-	384	192	300	90	

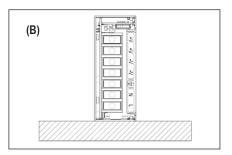
Notes: (1) Peak current 10seconds. 35% duty cycle max. (2) By trim pot provided. Wider adjustment is possible by external voltage control. See instruction manual for details.

Outline Drawing GWS500 Series



Mounting Options GWS500 Output Derating according to the Mounting Directions



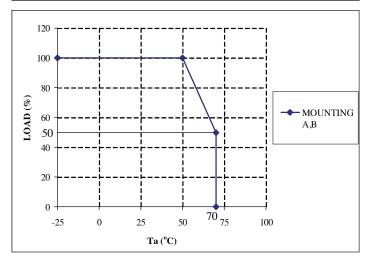


Mounting Method

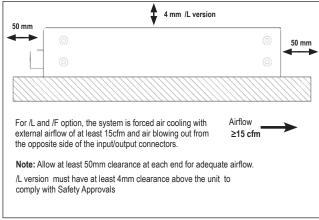
Output Derating according to the Mounting Directions Recommended standard mounting is Method (A). Method (B) is also possible.



Output Derating Curve GWS500



Mounting Options GWS500 /L /F options



Options	
Suffix	Description
/ T	OTP auto recovery after unit cools down
/ RL	Remote ON/OFF reverse logic (Active High)
/ BAT	Battery charging for 24V (21~29V/17.6A) & 48V (42~58V/8.8A) only
/ F	Full cover without internal fan but require external forced air cooling
/ L	Without cover but require external forced air cooling
/ CO2	Double side coated pcb

MOQs apply to Option models

Please contact your local TDK-Lambda sales office for details.

GWS500 Output Voltage External Control (PV)

Output voltage external control function is available. Output voltage can be varied by applying an external voltage (3–6V) to "PV" terminal and "COM" terminal. See instruction manual for details.

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