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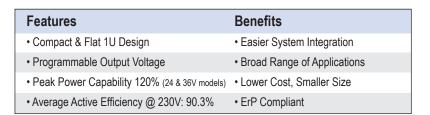








**Single Output 500W Power Supplies** 





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 <sup>2</sup> (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	-	Approved by UL60950-1, CSA C22.2 No.60950-1-07 (2nd Edition), EN60950-1, IEC60950-1 (2nd Edition), CE					
Conducted & Radiated EMI	-	Built to meet EN55022-B, CISPR22-B					
Weight (Typ)	g	1020					
Size (L x W x H)	mm	218 x 105 x 41					
Warranty	yrs	5					

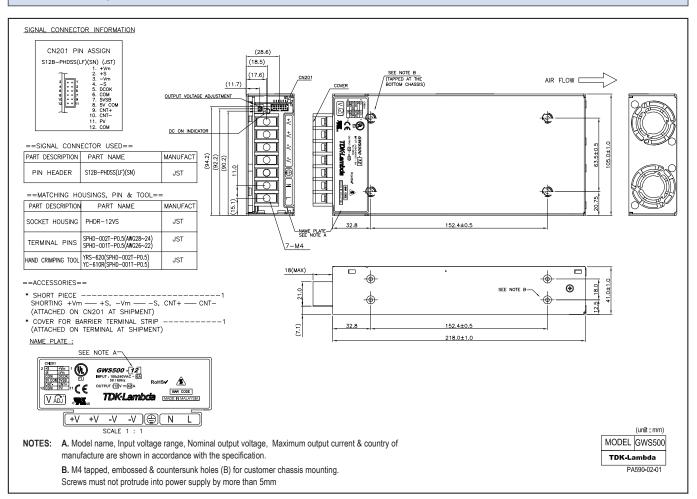
Notes: (1) 115 / 230VAC input (2) Recycle AC, or use remote on/off to reset (3) When remote off and 5V Aux supply @ no load



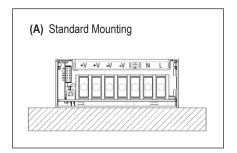
Model Selector									
Model	Voltage (V)	Adjust <sup>2</sup> Range (V)	Max Current (A)	Peak Curr. <sup>1</sup> <10s (A)	Load Reg. (mV)	Line Reg. (mV)	Ripple Noise (mV)	Efficiency (typ) % (230VAC)	
GWS500-12	12V	10.8 - 13.2	42	-	96	48	150	89	
GWS500-24	24V	22 - 28.8	21	25.0	192	96	150	90	
GWS500-36	36V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

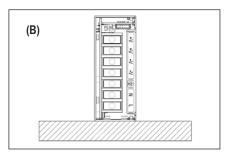
Notes: (1) Peak current 10seconds. 35% duty cycle max. (2) By trim pot provided. Wider adjustment is possible by external voltage control. See instruction manual for details.

# **Outline Drawing GWS500 Series**



# Mounting Options GWS500 Output Derating according to the Mounting Directions



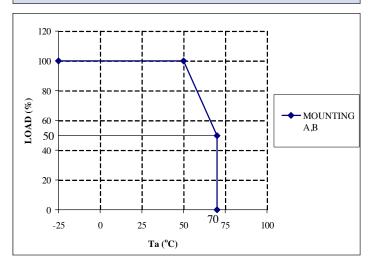


## **Mounting Method**

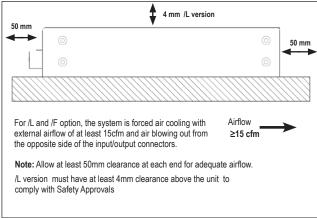
Output Derating according to the Mounting Directions Recommended standard mounting is Method (  $\bf A$  ). Method (  $\bf B$  ) is also possible.



# **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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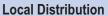
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