

www.uk.tdk-lambda.com/gws



Features	Benefits
Compact & Flat 1U Design	<ul> <li>Easier System Integration</li> </ul>
Programmable Output Voltage	<ul> <li>Broad Range of Applications</li> </ul>
Peak Power Capability 120% (24 & 36V models)	Lower Cost, Smaller Size
Average Active Efficiency @ 230V: 90.3%	ErP Compliant

## Single Output 500W Power Supplies



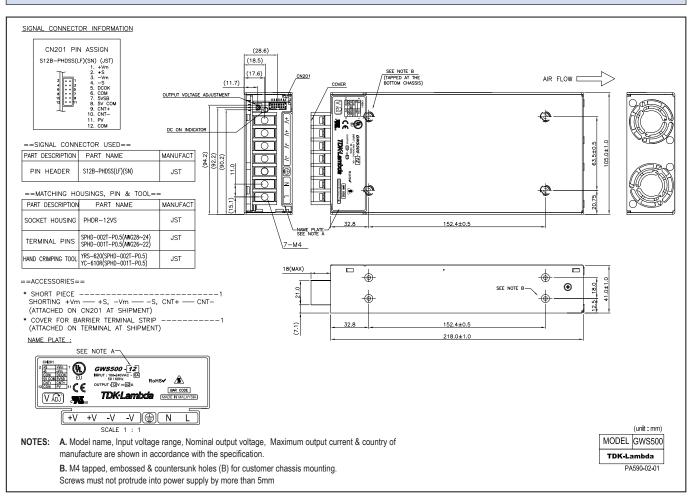
#### Specification Model **GWS500** AC Input Voltage VAC 85 - 264VAC (300VAC for 5s) Hz 47 - 63Hz Input Frequency DC Input Voltage VDC 120 - 373VDC Inrush Current (cold start) А 20A/40A at 115VAC, 40A/40A at 230VAC, Ta=25°C (First Inrush/Second Inrush) Meets EN61000-3-2 (Typical PF 0.98/0.95) ClassA, Class C> 35% Load Power Factor (1) \_ Input Current (115/230VAC) А 4.5 / 2.3 (for 5V model) 5.5 / 2.7 (for other models) Temperature Coefficient °C <0.02%/°C Overcurrent Protection Hiccup (5V-12V models) Constant Current Limit (24V-48V models) >105% rated output power or >101% of peak output power V Overvoltage Protection (2) 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) 16 (12V - 48V) ms <0.75mA Leakage Current (230VAC 60Hz) mΑ Remote Sense Yes Remote On/Off Possible (Active Low) <0.5W Standby Input Power Draw (3) W 5V 0.3A 5V Standby (always on) -DC Good DC Good, open collector signal, High on Fail I FD Indicator Green LED = On \_ See installation manual for details Output Remote Programming **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) Forced Air by Blower Fans Cooling -Withstand Voltage Input - Output : 4.25kVDC (20mA), Input - FG :2.25kVDC (20mA) Output - FG : 500VDC (100mA) For 1min. Ω **Isolation Resistance** >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/s2 (20G) -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 Immunity 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 1020 Weight (Typ) g 218 x 105 x 41 Size (L x W x H) mm 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

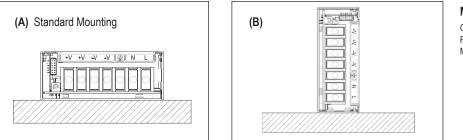
Model Selector									
Model	Voltage (V)	Adjust Range (V)	Max Current (A)	Peak Curr. <sup>1</sup> <10s (A)	Load Reg. (mV)	Line Reg. (mV)	Ripple Noise (mV)	Efficiency (typ) % (230VAC)	
GWS500-12	12V	10.8 - 13.2	42	-	96	48	150	89	
GWS500-24	24V	22 - 28.8	21	25.0	192	96	150	90	
GWS500-36	36V	32 - 40	14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

#### **Outline Drawing GWS500 Series**



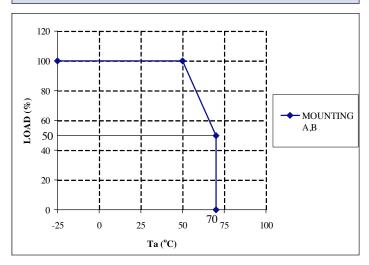
### Mounting Options GWS500 Output Derating according to the Mounting Directions



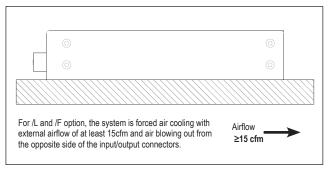
#### Mounting Method

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

### **Output Derating Curve GWS500**

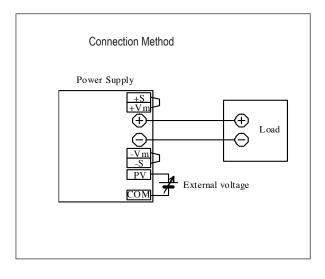


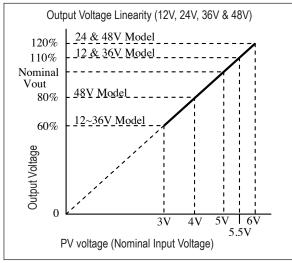
### Mounting Options GWS500 /L /F options

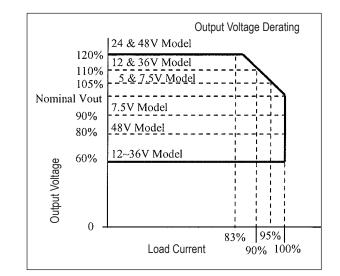


### GWS500 Output Voltage External Control (PV)

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. Please consider the following characteristics







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#### **Local Distribution**

GWS500 Feb12 v1

