

HETA SMPS SERIES

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◆ SWITCH MODE POWER SUPPLY

GENERAL SPECIFICATIONS

One of the most important components affecting noise performance is the power supply used to power the QCL driver. Wavelength has extensively tested the TDK/Heta switching power supply, and recommends this power supply for most QCL applications. A linear supply will offer lower noise, but a much larger size and lower efficiency



TECHNICAL SPECIFICATIONS

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INPUT		
Input Voltage	85 - 265 VAC	
Frequency	47 - 63 Hz	
OUTPUT		
Output Power Maximum	52.8 W	
Output Voltage	24 V	Output voltage is within $\pm 20\%$ of nominal output voltage:
Output Current	2.2 A	
Hold Up Time	20 ms	
Line Regulation	96 mV	
Load Regulation	192 mV	
Ripple & Noise	150 mV	100 MHz bandwidth
Oversoltage Protection	30 - 34.8 V	Inverter shutdown, manual reset. When OVP triggers, the output will be Shutdown. Remove the input and re-connect to reset power. The OVP setting is fixed, not user adjustable. In the case of an inductive load, use a Decoupling diode at the output terminal.
Overload Protection, hiccup trip & auto restart	>104%	Constant current limiting and hiccup with automatic recovery when overload condition clears.
Temperature Coefficient	< 0.02% / °C	
GENERAL		
Efficiency	82 / 84 %	100 / 200 VAC input. Power Thermistor Protection
Operating Temperature ⁽¹⁾	-10 to + 71 °C	See derating chart above 50°C
EMC		
Emissions, FCC B EN55011 / EN55022	Yes	
SAFETY		
UL/cUL, CB, CE Mark Approved	Yes	
Weight	280 g	
Size	1.46 x 3.23 x 6.3 inches	