

## 1000 to 2500W Front End Power Supplies

### Features

- ◆ 2U high
- ◆ Up to 12,500W in 19" rack
- ◆ Hotswap capable
- ◆ >90% efficiency
- ◆ Full power at 65°C ambient
- ◆ Full array of signals



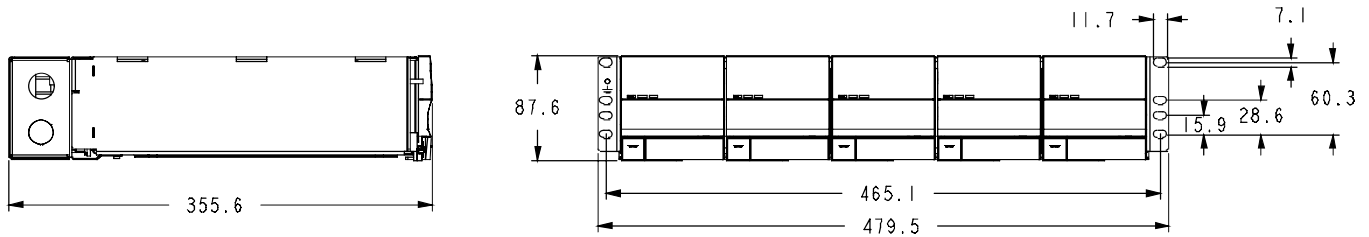
Specifications			
Model		24V Nominal (Factory Set)	48V Nominal (Factory Set)
Output Voltage Range	(1) VDC	21 - 28V	42 - 56V
Total Regulation	%	±1	
Current limit	%	105 to 120%	
Short Circuit Current	%	150% maximum	
Output Noise	mV	480mV maximum, peak to peak (10Hz to 20MHz)	
Output Rise Time	-	100 - 400ms	
Dynamic Response	-	3% in 10ms for a 10 - 100% load change	
Oversvoltage Protection	(3) VDC	27 to 30V	54 to 60V
Load sharing	-	±10%	
Redundancy	-	Internal "or"-ing protection	
I2C programming	(1) -	Set Output Volt., Monitors AC Present, Converter OK, Thermal profile, Fan fail	
Signals (opto isolated)	(2) -	Converter OK, AC Present, and Over-temperature alarms. Active Low on Fail	
Remote On/Off	-	Shuts down output(s) by applying 5V	
Auxiliary Output	-	12V 0.1A bias voltage	
AC Input	-	TL1000: 90~264VAC, 95VAC start up; TL1500-2500: 180~264VAC, 185VAC start up	
Power Factor	-	0.99 Typical meets EN61000-3-2	
Inrush Current	A	<40A	
Leakage Current	mA	<3.2mA	
Efficiency (typical)	%	92%	
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8	
EMC (conducted and radiated)	-	EN55022, level B, FCC Class B	
Operating Temperature	-	-40°C to +65°C, short duration at 75°C, no derating (TL250048: -40°C to 65°C)	
Storage Temperature	-	-40 to +85°C	
Humidity	-	5 - 95% RH non condensing	
Altitude	-	-200 to 8000 feet, derate max. ambient 2°C/1000 feet	
Shock	-	IEC68-2-27, MIL STD 810E, 20G	
Vibration	-	IEC68-2-64 (random) 20 - 200Hz, 30 minutes	
Safety Agency	-	UL60950, CSA 22.2 No. 60950-00, EN60950, CE Mark	
Size (L x W x H)	-	11.12" x 3.41" x 3.45" (stand alone), 14" x 18.9" (incl. ears) x 3.45" (TLR5 rack)	
Weight	lbs	Stand alone unit: 5.6lbs, Rack: 9.5lbs	
Warranty	yrs	Two Years	

(1) Contact Factory for application

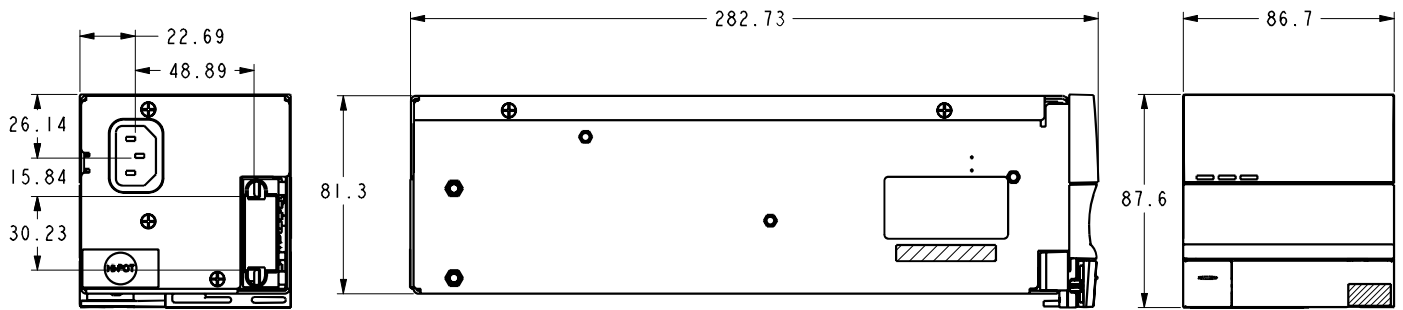
(2) All three signals share a common return - Logic GND

(3) Factory Programmable

## TL Rack Outline Drawing



## TL Module Outline Drawing



## Other Industrial Products

FPS	1U 1kW to 3kW Front end
PX, CC-E, PAQ, PAH, PAF	DC-DC Converters
HWS, LZSA	15W to 1800W Single output

For Additional Information, please visit  
[us.tdk-lambda.com/lp/products/tl-series.htm](http://us.tdk-lambda.com/lp/products/tl-series.htm)



## Models

Model	Output Voltage	Output Current	Maximum Power
TL100024*	24V	40A	1000W
TL150024	24V	55A	1500W
TL100048	48V	20A	1000W
TL150048	48V	30A	1500W
TL250048	48V	50A	2500W
TLR5	19" Rack, holds up to 5 TL Modules		
TLRBP	Blanking Panel for One Module Slot		
TLRC01	Signal Cable		

\*Last time buy date May 31st, 2019