

# TR25D

S E R I E S

## 25W SWITCHING ADAPTER DUAL OUTPUTS



### Features

- Universal Input Range 90-264VAC
- Meets EN55022 Class B and CISPR/FCC Class B, Conducted
- Continuous Short Circuit Protection
- Over Voltage Protection (Option)

### Ordering information

Model No.	2W Type	Pin Assignment	Output Option	DC Cable Length and Type
1: 0Vdc Plug	1: Pin 24 GND, Pin 11: Pin 12	A: Without OVP Option	01: 120mm	
2: 0Vdc Plug	2: Pin 22 GND, Pin 11: Pin 12	E: With OVP Option	02: 120mm	
3: 0Vdc Plug	3: Pin 22 GND, Pin 11: Pin 12		03: 180mm	
4: 0Vdc Plug	4: Pin 22 GND, Pin 11: Pin 12		04: 120mm with Ferrite Core	
5: 5A/2-Pin	5: Pin 22 GND, Pin 11: Pin 12		05: 180mm with Ferrite Core	
6: Open end	6: Pin 22 GND, Pin 11: Pin 12		* 180mm	
7: Pin 11	7: Pin 22 GND, Pin 11: Pin 12			
8: Pin 12	8: Pin 22 GND, Pin 11: Pin 12			
9: Pin 11/12	9: Pin 22 GND, Pin 11: Pin 12			
10: Pin 11/12	10: Pin 22 GND, Pin 11: Pin 12			

MODEL	OUTPUT VOLTAGE (VOLTS)	OUTPUT CURRENT (AMPS) MIN. RATED MAX.	PEAK <sup>1</sup> (AMPS)	RIPPLE <sup>2</sup> , P-P (mV)	TOTAL REGULATION <sup>3</sup>	O/P POWER MAX.	SWITCHING FREQUENCY	%EFF.	MINI. LOAD
TR25D-01Y	+3.3V(V1)	0.3 3 4	5	50	±7%	20W	55KHz Typ.	65% min.	0.3A(V1)
	+5V(V2)	0.2 2 3	4	50	±5%				0.2A(V2)
TR25D-02Y	+5V(V1)	0.2 2 3	4	50	±5%	25W	55KHz Typ.	65% min.	0.2A(V1)
	+12V(V2)	0.13 1.3 2	3	120	±5%				0.13A(V2)
TR25D-03Y	+5V(V1)	0.2 2 3	4	50	±5%	25W	55KHz Typ.	65% min.	0.2A(V1)
	+15V(V2)	0.1 1 1.5	2	150	±5%				0.1A(V2)
TR25D-04Y	+5V(V1)	0.2 2 3	4	50	±5%	25W	55KHz Typ.	65% min.	0.2A(V1)
	+24V(V2)	0.1 0.6 1	1.5	240	±5%				0.1A(V2)

### Specifications

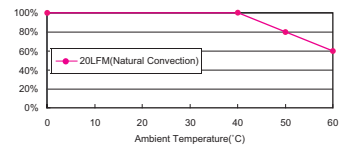
**INPUT SPECIFICATIONS:**  
 Voltage .....90 - 264Vac  
 Frequency .....47 to 63Hz  
 Inrush Current .....50A max. @ 240Vac  
 Conducted EMI .....CISPR/FCC Class B  
 Isolation .....Input to output +4,242VDC  
 Leakage Current .....1.5mA max.

**OUTPUT SPECIFICATIONS:**  
 Holdup Time .....14ms typ. @ 115Vac  
 Short Circuit Protection .....Continuous  
 Over Voltage Protection .....Option

**ENVIRONMENTAL CHARACTERISTICS:**  
 Operating Temperature .....0 - 40°C  
 Storage Temperature .....-20 - 85°C  
 Cooling .....Natural Convection

**MECHANICAL CHARACTERISTICS:**  
 Dimensions .....132.00 x 58.00 x 30.00mm(5.197 x 2.283 x 1.181 Inches)  
 Weight .....305g (0.67Pounds)  
 AC Inlet .....IEC320/C14

### TR25D Series Derating Curve



### NOTE:

1. Peak output current (total output power must less than 32W) lasting less than one minute with duty factor less than 5%. During peak loading, output voltage may exceed total regulation limits.
2. Add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to the output cable. Peak to peak and RMS metering equipment shall have a 20 MHz response with probes and cables maintaining frequency response from 200Hz to 100MHz bandwidth. Output ripple and spikes are measured directly at the output terminals of the power supply without the use of the probe ground clip.
3. Total regulation is defined as the static output regulation at 25°C, including initial tolerance, line voltage within stated limits. And load currents within stated limits, but when V1 exceed rated load, the total regulation will be ±10%.

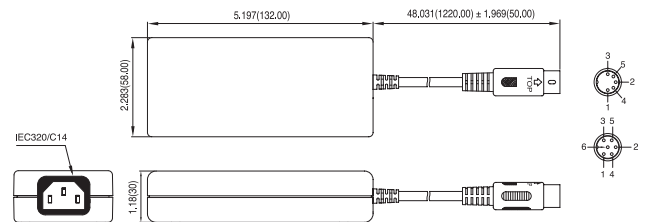
### DC plug & pin assignment (CUSTOM DESIGN IS AVAILABLE)

OUTPUT NO.	TR25D-XX	-14A02	-35A02
PN1	GND	DIN PLUG (SP 180°)	DIN PLUG (MP 240°)
PN2	GND		
PN3	V1		
PN4	V2		
PN5	V1		
PN6	V1		

Y:SEC-GND is Isolated from AC-GND.

### Mechanical Specification

All Dimensions in Inches(mm)  
 Tolerance: Inches: x.xxx ±0.02  
 Millimeters: x.xxx ±0.5



Typical at 25°C, nominal line and 75% load, unless otherwise specified.