TWA150 Series

150W AC/DC Power Adapters

FEATURES

- 12-26V, 33-39V, 44-52V Outputs Available
- Up to 150W Continuous Output Power
- 0.9 to 0.95 Power Factor
- No Load Power Consumption < 0.5W
- CEC, Energy Star, ERP& EISA Efficiency Level V Compliant



INPUT & OUTPUT SPECIFICATIONS

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63 Hz
Input Current	2.5A (rms) max. @ 90 VAC; 1.25A (rms) max. @ 264 VAC
No Load Power Consumption	<0.5W
Output Voltage & Current	See table
Output Power	150W max.
Output Voltage Regulation	+5% / -2%
Ripple and Noise	See table
Short-Circuit Protection	Yes, Auto recovery
Overload Protection	Yes, Auto recovery
Overvoltage Protection	Latch & shutdown, AC recycle

GENERAL SPECIFICATIONS

Switching Frequency	50 to 125 KHz
Efficiency	87% minimum at average load, 115 VAC/230 VAC input
Power Factor	>0.95 @ 115 VAC, >0.90 @ 230 VAC at full load
Hold-up Time	>20 ms typical at full load, 115 VAC input
Inrush Current	65A peak @ 115 VAC, 130A peak @ 264 VAC, cold start @ 25°C
Withstand Voltage	3,000 VAC, input to output 1,500 VAC, input to ground 500 VAC, output to ground
MTBF	>140,000 hours at full load and 25°C ambient, calculated per MIL-HDBK-217F

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0°C to +60°C ambient
Derating	Derate from 100% at +40°C linearly to 50% at +60°C
Storage Temperature	-10°C to +85°C
Operating Humidity	20% to 90%

STANDARDS & COMPLIANCES

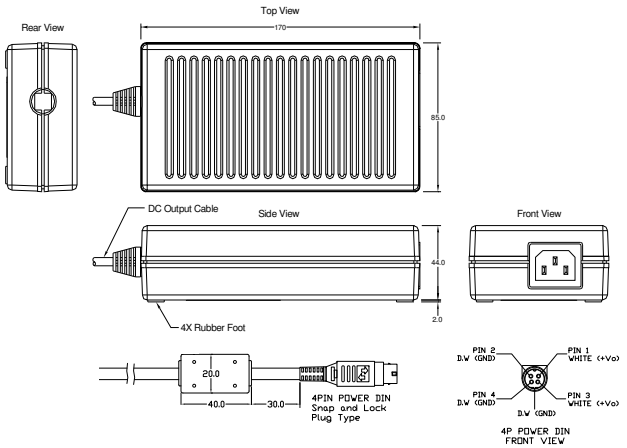
EMC Standards	FCC/EN 55022/CISPR22, Class B
Safety Standards	UL 60950-1, EN/IEC 60950-1, CSA C22.2 No. 60950-1
Agency Approvals	UL, cUL, TUV, CB, CE (LVD)
Other Compliances	CEC, Energy Star, ERP & EISA efficiency level V, RoHS

MODELS LIST

Product No.	Output Voltage	Max. Output Current	Ripple & Noise (Vp-p)*	Max. Output Power
TWA150-12	12V	11.67A	240mV	140W
TWA150-15	15V	10A	300mV	150W
TWA150-19	19V	7.9A	380mV	150W
TWA150-24	24V	6.25A	480mV	150W
TWA150-36	36V	4.17A	480mV	150W
TWA150-48	48V	3.13A	480mV	150W

*Measured at output within 20 MHz bandwidth, at rated line voltage and output load range, and with a 10 µF tantalum capacitor in parallel with a 0.1 µF ceramic capacitor across the output.

MECHANICAL SPECIFICATIONS



OUTPUT CONNECTOR	
PIN	FUNCTION
1	+V
2	RETURN
3	+V
4	RETURN
SHELL	RETURN & AC GROUND

Notes:
1. Dimensions in mm
2. Tolerance: ±0.5mm
3. Output cable: 1,050 mm; AWM 1571 #14 AWG on 12-24V models, AWM 1185 #16 AWG on 36-48V models.
4. Mating connector: Kycon P/N KPJX-4S-S or equivalent

#TWA150-2011-1205

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