

AC/DC DESKTOP ADAPTER

12 - 56VDC 100W

TEAD360



Features:

- GaN Technology
- Compact Size
- Class I and Class II input versions
- Active PFC function
- Short circuit/over-voltage/over-current/over-temperature
- Energy Efficiency Level VI, Up to 95%



*Safety approvals may be model dependent. Consult TT Electronics for specifics or for additional safety approvals required.

Description:

The TEAD360 series of AC/DC switching power supplies provide 360 watts of continuous power. They are available as Class I or Class II input devices with IEC320 C14, C6, C18, or C8 inlets that mate with interchangeable AC cords for world-wide use. All models meet FCC PART 15, EN55032, CISPR32, and EN61000-4 EMC limits and comply with IEC 62368-1 standards.

Model	Voltage	Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise (P-P)
TEAD360-12	12VDC	25A	300W	±5%	±1%	240mV
TEAD360-13	15VDC	20A	300W	±5%	±1%	240mV
TEAD360-13-2	19VDC	18.94A	360W	±5%	±1%	360mV
TEAD360-14	24VDC	15A	360W	±5%	±1%	360mV
TEAD360-17	36VDC	10A	360W	±5%	±1%	630mV
TEAD360-18	48VDC	7.50A	360W	±5%	±1%	840mV
TEAD360-19-1	56VDC	6.42A	360W	±5%	±1%	840mV

Notes:

1. Output ripple and noise is measured within a limited bandwidth of 20MHz, with a 0.1μF ceramic capacitor and a 47μF electrolytic capacitor in parallel with the device output.
2. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
3. Max. Power (W) $\geq V_o \times I_o$
4. C14 input receptacle is standard.
For C6 input receptacle, add "S" to the end of the model number.
For C18 input receptacle, add "F" to the end of the model number.
For C8 input receptacle, add "SF" to the end of the model number.

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Specifications:

Input	
Input Voltage	90 - 264VAC
Input Frequency	47 - 63Hz
Input Current	≤5A
Inrush Current (Typical)	≤180A at 230VAC, cold start
No Load Power Consumption	Meets DOE Level VI requirements
Output	
Total Output Power	See Table
Output Voltage	See Table
Hold Up Time (Typical)	≥8.3mS at 115VAC, full load
Turn on Delay	≤3S
Protection Features	
Over-voltage	Auto-Recovery
Over-current	Auto-Recovery
Over-temperature	Auto-Recovery
Short Circuit	Auto-Recovery
Environmental	
Operating Temperature	0° - +60°C (See Derating Curve)
Storage Temperature	-20° - +85°C
Operating Humidity	10% - 90% non-condensing
Storage Humidity	5% - 95% non-condensing
Altitude	<5000m operational and storage

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Specifications (continued):

General Specifications	
Dimensions	6.69"(170mm)L x 3.31"(84mm)W x 1.24"(31.5mm)H
Weight	2.09lb (950g)
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient
AC Input Connector	IEC320: C6, C8, C14, C18
DC Output Connector	6-pin Molex mini-fit, #39-01-2060 with female terminals #5556. Mates with Molex plug 39-01-2066 and male terminal #5558. <i>Other connectors available upon request</i>
Safety	
Approvals*	IEC 62368-1 UL, cUL, EN, CB, CE, UKCA
*Safety approvals may be model dependent. Consult TT Electronics for specifics or for additional safety approvals required.	
EMC	
Conducted Emission	EN55032, FCC PART 15
Radiated Emission	EN55032, FCC PART 15
Harmonic Currents	EN61000-3-2, Class A
Voltage Flicker	EN61000-3-3:2013
Electrostatic Discharge	EN61000-4-2:2008 (±8kV air, ±4kV contact)
Radiated Immunity	EN61000-4-3:2006+A1:2007+A2:2010 (3V/m)
EFT/Burst	EN61000-4-4:2012 (±1kV)
Surge Immunity	EN61000-4-5:2014/AMD1:2017 (1kV diff)
Conducted Immunity	EN61000-4-6:2013 (3Vrms)
Power Frequency Magnetic Field Immunity	EN61000-4-8:2009 (1A/m)
Dips/Interruptions	EN61000-4-11:2004 (<5% dip 0.5 periods, 70% dip 25 periods, <5% interruptions 250 periods)

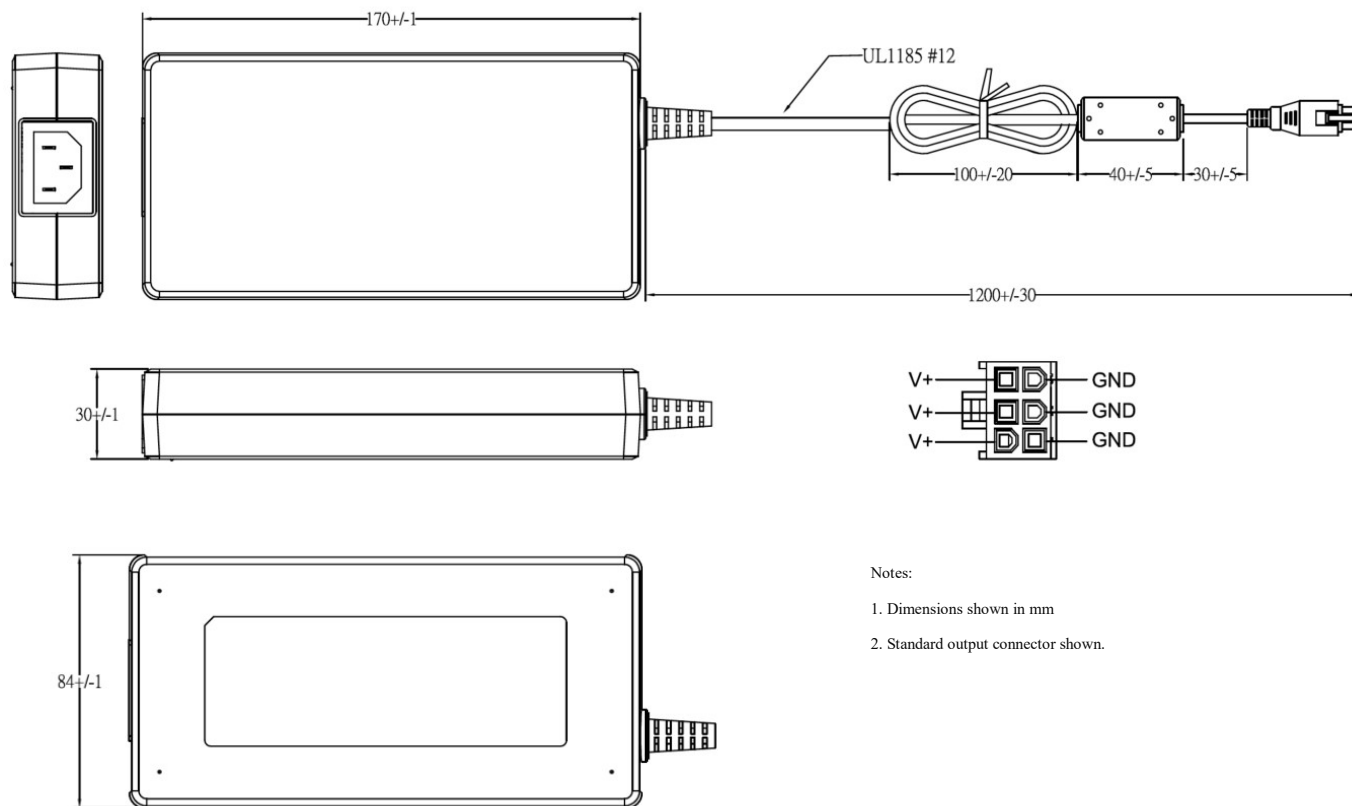
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Mechanical Outline:



Derating Curve:

