

AC/DC DESKTOP ADAPTER

12 - 56VDC 180W

TEAMD180



Features:

- GaN Technology
- Compact Size
- Class I and Class II input versions
- 2xMOPP Insulation
- Short circuit/over-voltage/over-current/over-temperature
- Energy Efficiency Level VI or CoC Tier II , Up to 95%
- No load power consumption $\leq 0.21\text{W}$ (VI), $\leq 0.15\text{W}$ (Tier II)



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

Description:

The TEAMD180 series of AC/DC switching power supplies provide 180 watts of continuous power. They are available as Class I or Class II input devices with IEC320 C14, C6, C8, or C18 inlets that mate with interchangeable AC cords for world-wide use. All models meet EN55011, FCC PART 15, EN55032, EN61000, CISPR11 and CISPR32 emissions limits and comply with IEC 60601-1 and IEC 62368-1 standards.

Model	Voltage	Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise (P-P)
TEAMD180-12	12VDC	14.16A	170W	±5%	±1%	300mV
TEAMD180-13	15VDC	11.33A	170W	±5%	±1%	300mV
TEAMD180-13-2	19VDC	9.47A	180W	±5%	±1%	360mV
TEAMD180-14	24VDC	7.5A	180W	±5%	±1%	360mV
TEAMD180-17	36VDC	5A	180W	±5%	±1%	540mV
TEAMD180-18	48VDC	3.75A	180W	±5%	±1%	840mV
TEAMD180-19-1	56VDC	3.21A	180W	±5%	±1%	840mV

Notes:

1. Output ripple and noise is measured within a limited bandwidth of 20MHz, with a 0.1 μ F ceramic capacitor and a 47 μ F electrolytic capacitor in parallel with the device output.
2. Line regulation is defined by changing $\pm 10\%$ 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 C8 input receptacle, add "SF" to the end of the model number.
For C18 input receptacle, add "F" to the end of the model number.

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Specifications:

Input	
Input Voltage	90 - 264VAC
Input Frequency	47 - 63Hz
Input Current	≤2.5A
Inrush Current (Typical)	≤120A 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)	≥10mS at 115VAC, full load
Earth Leakage Current (Class I Models)	≤250μA
Touch Current	≤100μA at 240VAC, 50Hz
Turn on Delay	≤3S
Protection Features	
Over-voltage	Auto-Recovery
Over-current	Auto-Recovery
Over-temperature	Latch-Off
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	5.96"(151.3mm)L x 2.98"(75.8mm)W x 1.00"(25.4mm)H
Weight	1.06lb (480g)
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	Kycon KPP-4P or equivalent Other connectors available upon request
Safety	
Approvals	IEC 60601-1 UL/cUL 60601-1 EN 60601-1 IEC 62368-1
*Safety approvals may be model dependent. Consult TT Electronics for specifics or for additional safety approvals required.	
EMC	
Conducted Emission	EN55011, EN55032, FCC PART 15
Radiated Emission	EN55011, EN55032, FCC PART 15
Harmonic Currents	EN61000-3-2, Class A
Voltage Flicker	EN61000-3-3:2013
Electrostatic Discharge	IEC61000-4-2: (±15kV air, ±8kV contact)
Radiated Immunity	IEC61000-4-3: (10V/m)
EFT/Burst	IEC61000-4-4: (±2kV)
Surge Immunity	IEC61000-4-5: (1kV diff, 2kV common)
Conducted Immunity	IEC61000-4-6: (10Vrms)
Power Frequency Magnetic Field Immunity	IEC61000-4-8: (30A/m)
Dips/Interruptions	IEC61000-4-11: (<5% dip 0.5 periods, 70% dip 25 periods, <5% interruptions 250 periods)

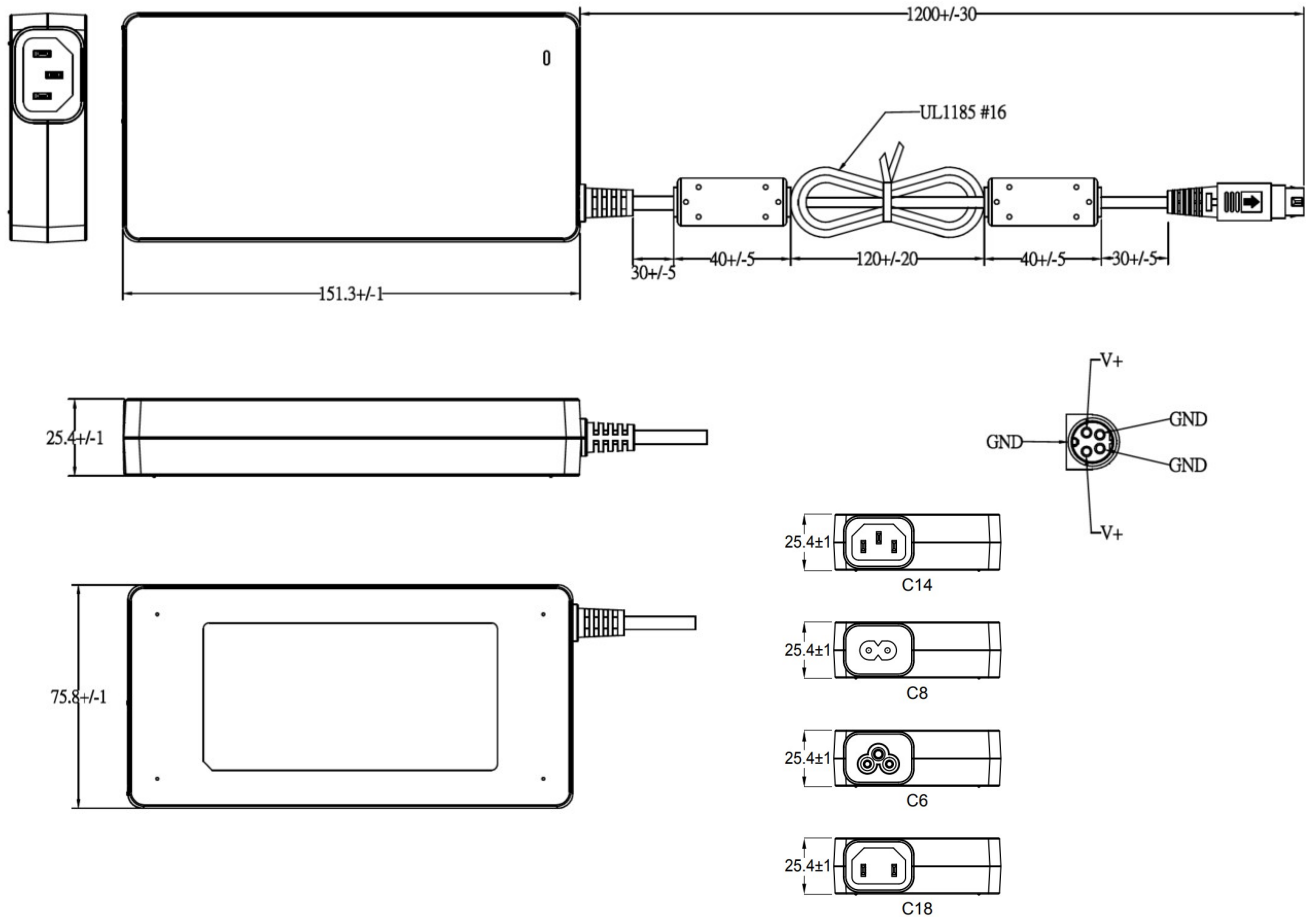
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Mechanical Outline:



Derating Curve:

