



Total Power International, Inc.

UNIVERSAL INPUT HARMONIC CORRECTION (PFC) AC-DC MEDICAL APPLICATION EXTERNAL DESKTOP SWITCHING ADAPTER 78-100 WATTS GREEN POWER SINGLE OUTPUT TPEMP100G SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- NO LOAD POWER CONSUMPTION < 0.5W
- MEET MEDICAL STANDARDS IEC60601-1
- EMI MEET EN55011 / FCC CLASS B
- MEET UNIVERSAL SAFETY STANDARDS
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typical 90-264Vac with PFC.
Input Connector: 3 pole AC inlet IEC320-C6(DT7L) / 2 pole AC inlet IEC320-C8(DT8).
Input Frequency: 47-63Hz.
Inrush Current: 7.2Arms at 230Vac 50Hz.
Input Current: Typical 0.976A at 115Vac
 Typical 0.496A at 230Vac
Dielectric Withstand: Meet IEC60601-1.
EMI: Meet EN55011 FCC Class B.
Hold-up Time: Typical 22mS at 115Vac/ 43mS at 230Vac.
Power Factor & Harmonic Correction:
 Meet IEC 61000-3-2, PF typical 0.98 at full load.
Earth Leakage Current: Less than 0.13mA.
No Load Power: Typical 0.37W at 132Vac,
 Typical 0.50W at 264Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Wattage: Typical 78-100 Watts.
Output Connector: Optional.
Line Regulation: Typical 0.3 %.
Load Regulation: Typical ± 2 %.
Noise & Ripple: Typical 1% peak to peak.
OVP: Built-in. (Latch)
Adjustability: Not available.
Over Temp. Protection (OTP): Installed.
Overload Protection (OLP):
 Fully protected against output overload and short circuit.
 OLP set at about 110-135% rating output wattage.
 Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typical 88-90%. (various with output voltage)
Switching Frequency: 40-65 KHz.
Circuit Topology: Fixed Flyback circuit.
Transient Response: Output voltage returns in less than 1mS following a 25% load change.
Safety Standard: Meet Medical standards UL60601-1 / EN60601-1 Class I or II.

Operating Temperature: 0 to +40°C.
 (various with output voltage)
Storage Temperature: -20 to +85°C.
Cooling: Free air convection.
Construction: Impact resistant plastic enclosure case.
Power Density: 4.24-5.35 Watts/Cubic inch.
Desktop Format.

NOTE: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.
 (2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load varied from half load to full load ($\pm\%$).
 (3) The exact obtainable load regulation depends upon the output cord selected and load current.
 (4) Due to requests in market and advances in technology, specifications subject to change without notice.



For the details of safety approval, please consult the factory.



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OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	AC INLET	O/P VOLTAGE	O/P CURRENT
TPEMP100G-S120650-7L	IEC320-C6(DT7L)	12Vdc	6.5A
TPEMP100G-S120650-8	IEC320-C8(DT8)	12Vdc	6.5A
TPEMP100G-S150620-7L	IEC320-C6(DT7L)	15Vdc	6.2A
TPEMP100G-S150620-8	IEC320-C8(DT8)	15Vdc	6.2A
TPEMP100G-S190530-7L	IEC320-C6(DT7L)	19Vdc	5.3A
TPEMP100G-S190530-8	IEC320-C8(DT8)	19Vdc	5.3A
TPEMP100G-S240420-7L	IEC320-C6(DT7L)	24Vdc	4.2A
TPEMP100G-S240420-8	IEC320-C8(DT8)	24Vdc	4.2A
TPEMP100G-S360270-7L	IEC320-C6(DT7L)	36Vdc	2.7A
TPEMP100G-S360270-8	IEC320-C8(DT8)	36Vdc	2.7A
TPEMP100G-S480200-7L	IEC320-C6(DT7L)	48Vdc	2.0A
TPEMP100G-S480200-8	IEC320-C8(DT8)	48Vdc	2.0A
TPEMP100G-S580170-7L	IEC320-C6(DT7L)	58Vdc	1.7A
TPEMP100G-S580170-8	IEC320-C8(DT8)	58Vdc	1.7A

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 400.0g (14.18 Oz.)

