# **TRUMPower**

# 130 WATT MEDICAL POWER ADAPTERS

#### **DESCRIPTION**

The TMP130 series of AC/DC switching power adapters are for 100 to 130 watts of continuous output power. They are designed for medical applications that require external power. The units are enclosed in a 94V-1 rated polyphenylene-oxide case with an IEC 320 inlet to mate with interchangeable cord for world-wide use. An on/off switch can be added at request. All models meet CISPR 11 and FCC class B emission limits, and comply with UL, CSA, IEC and CE requirements.

#### **FEATURES**

- · In compliance with EN61000-3-2, EN61000-3-3 and EN61000-1-1-2
- · Optional output connectors
- · Optional on/off switch
- · Optional Power Fail Detect (PFD) signal
- · 100% burn-in at full load
- · Auto-ranging input
- · Input surge current protection
- · Overvoltage protection
- · Thermal protection

#### INPUT SPECIFICATIONS

Input voltage: 90 to 132VAC or 180 to 264VAC

(auto-ranging)

Input frequency: 47 to 63 Hz

Input current: 3.0A (rms) for 115 VAC

1.7A (rms) for 230VAC

Leakage current: 90µA max. @ 115VAC, 60Hz

150µA max. @ 230VAC, 50Hz

## **OUTPUT SPECIFICATIONS**

Output voltage/current: See rating chart Total output power: 130 watts maximum

Ripple and noise: 1% peak to peak maximum Overvoltage protection: Provided on output: set at

112 - 132% of its nominal

output voltage

Overcurrent protection: All outputs protected to

short circuit conditions

Temperature coefficient: All outputs ±0.04%/°C

maximum

Transient response: Maximum excursion of 4% or

> better on all models, recovering to 1% of final value within 500µs after a 25% step load change

# **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature: 0°C to +70°C -40°C to +85°C Storage temperature :

Relative humidity: 5% to 95% non-condensing Derate from 100% at +50°C Derating:

linearly to 50% at +70°C

# TMP130 SERIES





### Safety Standard Approvals:



UL 2601-1

CSA C22.2 No. 601.1



**TÜV EN60601-1** 

#### GENERAL SPECIFICATIONS

Switching frequency: 68 Khz ±8Khz

70% minimum on Vo ≥12V Efficiency:

65% minimum on others 10 msec minimum at 115VAC Hold-up time: Line regulation: ±0.5% maximum at full load 15amps @115VAC, or 30amps Inrush current: @230VAC, at 25°C and cold start

Withstand voltage: 4000VAC from input to output

1500VAC from input to ground 5000VAC from output to ground

MTBF: 400,000 hours minimum at full load

at 25°C ambient, calculated per MIL-HDBK-217F, excluding DC fan.

#### EMC Performance (EN60601-1-2: 2001)

EN55011: Class B conducted, class B radiated Class B conducted, class B radiated FCC: VCCI: Class B conducted, class B radiated

Harmonic distortion, class A EN61000-3-2:

EN61000-3-3: Line flicker

ESD, ±8KV air and ±6KV contact EN61000-4-2: EN61000-4-3: Radiated immunity, 3V/m for

80~2500MHz

EN61000-4-4: Fast transient/burst, ±2KV Surge, ±1KV diff, ±2KV com. EN61000-4-5: EN61000-4-6: Conducted immunity, 3Vrms Magnetic field immunity, 3A/m EN61000-4-8: EN61000-4-11: Voltage dips, 30% reduction for

500ms, 60% reduction for 100ms and

>95% reduction for 10ms

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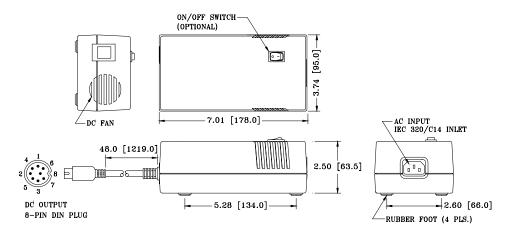
# **OUTPUT VOLTAGE/CURRENT RATING CHART**

		Output		Maximum	
Product No.	Vnom.	lmin.	lmax.	Tol.	Output Power
TMP130-05	5V	0A	20A	5%	100W
TMP130-07	7V	0A	14A	5%	100W
TMP130-10	10V	0A	10A	5%	100W
TMP130-12	12V	0A	10.8A	5%	130W
TMP130-15	15V	0A	8.6A	4%	130W
TMP130-18	18V	0A	7.2A	4%	130W
TMP130-24	24V	0A	5.4A	3%	130W
TMP130-30	30V	0A	4.3A	3%	130W
TMP130-36	36V	0A	3.6A	2%	130W
TMP130-48	48V	0A	2.7A	2%	130W

Notes: (1) All models are with built-in fan.

(2) Models except TMP130-05, TMP130-07 and TMP130-10 are without remote sense. Consult factory for applications requiring remote sense.

# **MECHANICAL SPECIFICATIONS**



#### NOTES:

- Dimensions shown in inch [mm]
- 2. Tolerance 0.02 [0.5] maximum
- 3. Weight: 0.80Kgs (1.76Lbs.) approx.
- Standard output connector is a male 8-pin DIN plug. Please contact TRUMPower for other options.
- To order a model with on/off switch, add suffix "S" to the model number, e.g. TMP130-24-S.

# **PIN CHART**

Product No.	PIN	1	2	3	4	5	6	7	8
TMP130-05 TMP130-10		RETURN	-SENSE	OUTPUT +V	RETURN	OUTPUT +V	RETURN	OUTPUT +V	+SENSE
TMP130-12 TMP130-18 TMP130-30 TMP130-48	TMP130-24	RETURN	RETURN	OUTPUT +V	RETURN	OUTPUT +V	RETURN	OUTPUT +V	OUTPUT +V