



Total Power International, Inc.

PCB-MOUNT UNIVERSAL INPUT AC-DC POWER SUPPLIES ENCAPSULATED MODULES 15-WATTS SINGLE OUTPUT TPAM15S SERIES



FEATURES:

- ON-BOARD AC/DC MODULAR POWER SUPPLIES
- WIDE INPUT VOLTAGE FOR THE WORLD WIDE USE
- COMPACT IN SIZE
- DESIGNED TO MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB.22 / FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 90-264Vac. (Or 110-340Vdc).
Input Frequency: 47-63 Hz. or DC.
Input Current: 0.32A @115Vac./0.15A @230Vac.
Inrush Current: 32.5A peak @230Vac.
Input Fuse: Use external fuse. 1.0A/250Vac. for primary fuse is suggested
Dielectric Withstand: Meet IEC950
3,000Vac-Output/Input.
1,500Vac-Input/GND.
500Vac-Output/GND.
EMI: Meet CISPR PUB.22 / FCC Class B.
Hold-up time: 20mS @115Vac, 120mS @230Vac.
Earth Leakage: Less than 3.5mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Wattage: Typ.15Watts.
Output Indicator: LED
Line Regulation: $\pm 0.1\%$ typ.
Load Regulation: $\pm 1.0\%$ typ.
Noise & ripple: Typ. 1.0% peak to peak.
OVP: Built-in on main output.
Adjustability: From -10% of main output till OVP
Short Circuit Protection: Power fold back, self-recovering.
Overload Protection: About 130% of overrange foldback type.

GENERAL SPECIFICATION

Efficiency: Typ.72%
Switching Frequency: 83K Hz.
Circuit Topology: Fixed Frequency Flyback circuit.
Transient Response: Output voltage returns in less than 3mS following a 50% load change.
Case: Impact resistant thermo-plastic enclosure.
Weight: 120.0g (4.23 Oz).
Power Density: 3.76 Watts. / Cubic inch.
Safety Standard: EN60950/ UL1950 Class I.

Operating Temperature: -25 to +71°C range.
-10°C to +50°C without derating. Derating linearly 2.5%/°C from +50°C @F-L to +71°C @ H-L.
(Refer to Derating Chart.)
Storage Temperature: -40°C to +85°C.
Temperature Coefficient: 0.02%/°C.
Humidity: Up to 95%RH, Non-condensing.
Cooling: Convection cooling for +50°C @ full load.
At least 100LFM moving air is recommended for full load >+50°C in a confined area.
Commercial Grade only.

Note: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

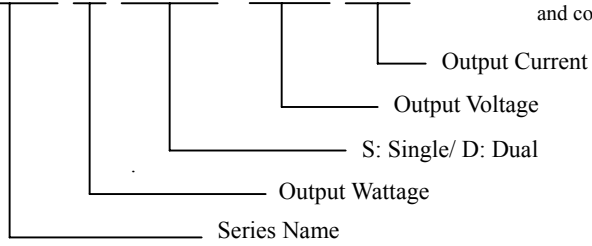
(2) Load Regulation measured from Full-Load (F-L) to Half-Load (H-L) at nominal input and others loaded at half load.



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MODEL NO. DESCRIPTION: TPAM15 S - XXX YYY

Remark: Please specify the V/A ratings and consult for Model No



OUTPUT VOLTAGE/ CURRENT RATINGS CHART

SINGLE OUTPUT

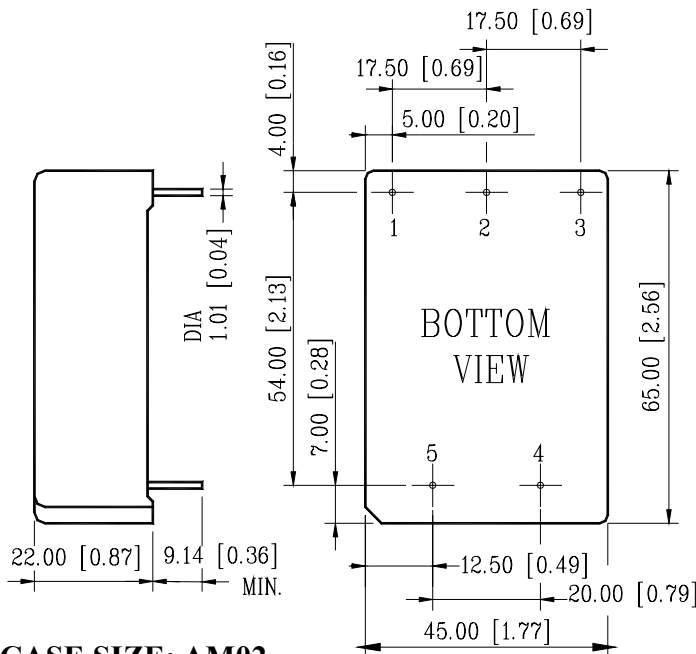
| MODEL NO. | VO1 @ ★ | | |
|----------------|---------|-------|-------|
| | TYP. | VOLT. | PEAK |
| TPAM15S-180083 | 0.83A | 18.0V | 1.00A |
| TPAM15S-240062 | 0.62A | 24.0V | 0.74A |
| TPAM15S-360041 | 0.41A | 36.0V | 0.50A |
| TPAM15S-480031 | 0.31A | 48.0V | 0.37A |

Symbols: "★" OVP built-in. "@" Adjustable.

Note: Peak output, less than 60 Sec. with duty cycle <10%.

MECHANICAL DIMENSIONS: MM [INCHES]

Weight: 120.0g (4.23 Oz).



CASE SIZE: AM02

PIN ASSIGNMENT

| PIN NO. | SINGLE |
|---------|------------|
| PIN #1. | AC-GROUND |
| PIN #2. | AC-NEUTRAL |
| PIN #3. | AC-LINE |
| PIN #4. | + VO1 |
| PIN #5. | DC-COM |

DERATING CHART

