

# TR15RAM SERIES

10-15 WATTS - AC/DC SINGLE OUTPUT

## FEATURES

- Universal Input Range
- Meets EN60601-1 and EN55011 Class “B”
- Continuous Short Circuit Protection
- Interchangeable AC Plugs
- Over Voltage Protection
- Energy Star 2.0, Level V



MEDICAL

## SPECIFICATIONS

INPUT	
Voltage range	90 to 264VAC
Frequency	47Hz to 63Hz
Input current	0.4A max.
Inrush current	50A max. @ 240Vac Cold Start@25°C
Isolation	Input to output = 5,656VDC
Leakage current	0.1mA max.

OUTPUT	
Output voltage	See table
Voltage accuracy	±3.0% - ± 2.0% max model dependant
Line regulation	±1.0% max.
Load regulation	±4% - ±2% model dependant
Ripple and noise	1% p-p max
Holdup time	10ms typ. @115Vac
Short circuit protection	Continuous (Auto Recovery)
Over voltage protection	TVS Clamp

ENVIRONMENTAL	
Operating temperature	-20 ~ 70°C
Load derating	Derate from 100% at +50°C linearly to 50% at -70°C
Storage temperature	-20~85°C
Humidity	93% RH max. Non condensing

OPERATING	
Switching frequency	95KHz typ
Efficiency	73 – 82% model dependant
MTBF	MIL-STD-217F, GB, at 25°C/115VAC T.B.D
Cooling	Natural Convection

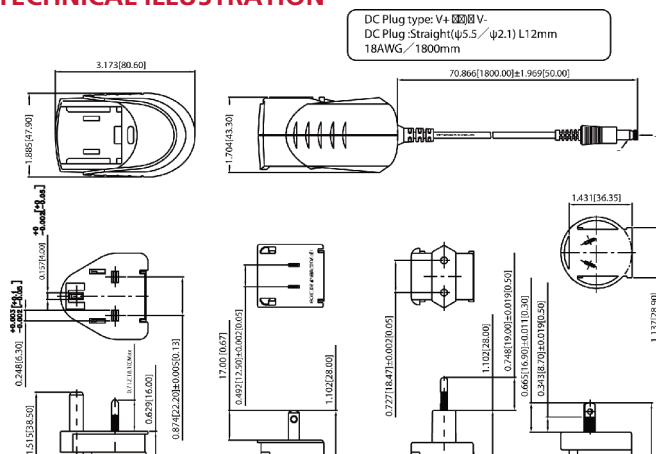
STANDARDS AND APPROVALS	
Safety standards	UL60601-1, IEC/EN60601-1
C-Tick	AS/NZS CISPR11 Group 1, Class A
EMI emissions	EN60601-1-2, EN55011 Class B

MECHANICAL	
Dimensions	80.60 x 47.90 x 43.30mm
Weight	130g
AC inlet	Australian 2 pin standards, other AC plugs optional
Output connector	Right angle, hollow coaxial plug, 2.5mm inside diameter, 5.5mm outside diameter, 9mm length, centre positive polarity.

## SELECTION TABLE

MODEL	RATED V <sub>NOM</sub>	OUTPUT CURRENT	OUTPUT POWER
TR15RAM 050-21E11	5Vdc	2.0A	10.0W
TR15RAM 120-21E11	12Vdc	1.1A	13.2W
TR15RAM 150-21E11	15Vdc	1.0A	15.0W
TR15RAM 240-21E11	24Vdc	625mA	15.0W

## TECHNICAL ILLUSTRATION



5°C, nominal line and 75% load, unless otherwise Specified