

MPU130 Series

130 WATTS - AC/DC SINGLE OUTPUT

MEDICAL

FEATURES

- Wide Input Voltage 90 to 264 VAC
- 100% burn in & tested
- Output Voltage Available 5VDC - 40VDC
- Splash proof
- Over Voltage and Over Load protection
- Temperature Detection
- Class I
- Ultra Low leakage current
- Power Factor Correction



SPECIFICATIONS

INPUT	
Voltage range	90-264VAC
Frequency	47-63 Hz
Power factor correction	0.95 Min, I _o =Full load, V _{in} =230 VAC
Inrush current	30 A Max @ 115 VAC, 50 A Max @ 230 VAC, at 25°C cold start
Input current	1.32 A (rms) typ for 115 VAC, I _o =full load 0.66 A (rms) typ for 230 VAC, I _o =full load
Earth leakage current	0.1mA max. @ 240VAC, I _o =full load
Isolation	Input – Output: 5600VDC Input – Ground: 2800VDC
Isolation resistance	50MΩ, test voltage = 500VDC
OUTPUT	
Output voltage	See table
Output current	See table
Ripple and noise	1% typ p-p, full load, V _{in} 90VAC
Line regulation	0.5% typ, I _o =full load
Load regulation	3-7% Max, V _{in} =230VAC
Transient response	4mS, I _o =Full Load to Half Load, V _{in} =100VAC
Over voltage protection	112-132% of output voltage
Over current protection	110-150%
Temperature coefficient	±0.04% /°C maximum
Hold-up time	16 ms minimum at 110 VAC

OPERATING	
MTBF	100,000 hours minimum at full load at 25°C ambient, calculated per MIL-HDBK-217F
Efficiency	75-88%, I _o =full load, V _{in} =230VAC, model dependant
ENVIRONMENTAL	
Operating temperature	0°C to +70°C maximum
Storage temperature	-40°C to +85°C
Relative humidity	5% to 95% non-condensing
Derating	Derate linearly from 100% at +50°C to 50% load at +70°C
STANDARDS & APPROVALS	
Safety	UL 94V-1, UL/c-UL(UL 60601-1), TÜV/T-marked EN 60601-1, CE requirements
C-Tick	AS/NZS CISPR11 Group1, Class A
EMC standards	FCC PART-18 Class B, CISPR-11 EN55011 Class B
MECHANICAL	
Dimensions	188 x 89.5 x 45.5mm
Weight	778-800g approx

SELECTION TABLE

MODEL CLASS I	OUTPUT VOLTAGE	OUTPUT CURRENT	TOTAL REGULATION	MAX OUTPUT POWER
MPU130-105	12V DC	10.84A	5%	130W
MPU130-108	24VDC	5.42A	3%	130W

Note: Multi output model available contact Powerbox office

TECHNICAL ILLUSTRATION

