

SINPRO

MPU130 series

The MPU130 series of AC/DC switching mode power supplies provide 130 Watts of continuous output power . All supplies are UL94V-1 min compliant. All models meet FCC Part-18, CISPR-11 and EN55011 class B emission Limits, IEC 60601-1-2:2014 and are designed to comply with UL/cUL and conformity assessment in CE marking. All units are 100% burned in and tested.







APPROVALS:







FEATURES:

- * Wide Operating Voltage, 90 to 260 VAC, 47 to 63 Hz
- * IEC-320-C14 Input Inlet
- * Other Input/Output Configurations Available (contact Beta Dyne Sales)
- * Single Output (Factory set, contact Beta Dyne Sales for other Voltage options)

130W External Medical Grade Power Supply

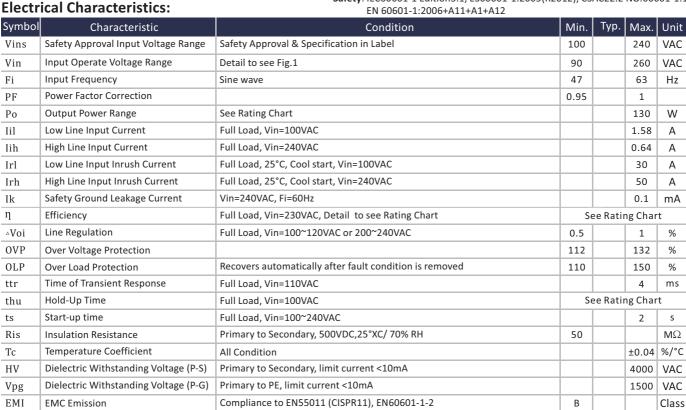
- * Crowbar Mode Over Voltage Protection
- * Input to Output: 2MOPP
- * ON/OFF SWITCH (Optional)
- * High ESD immunity
- * Suitable professional healthcare facility
- * Class I system
- * 5 year warranty

APPLICATIONS:

- * Medical Equipment
- * Patient Monitor
- * Ultrasound system
- * Blood chemistry analyzer
- * Medical Image

GENERAL SPECIFICATION:

- Short Circuit Protection: Auto Recovery
- Cooling: Free Air Convection
- * Flammability Rating: UL94V-1
- * Protection Classes: Class I
- * Safety: IEC60601-1 Edition3.1, ES60601-1:2005(R2012), CSAC22.2 NO.60601-1:14,



Environmental:

Livi official.												
Symbol	Characteristic	Condition	Min.	Тур.	Max.	Unit						
То	Operating Temperature	Detail to see Fig.2 (Derate linearly from 100% load at 40°C to 50% load at 70°C)	-10		70	°C						
Ts	Storage Temperature	10 ~ 95% RH	-40		85	°C						
Но	Operating Humidity	non-condensing	0		95%	RH						
Hs	Storage Humidity		0		95%	RH						
ESDa	Electro Static Discharge	Air Discharge, IEC61000-4-2			15	kV						
ESDc	Electro Static Discharge	Contact Discharge, IEC61000-4-2			8	kV						
MTBF	Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	100k			h						
ELEV	Operating Altitude (Elevation)	All condition			3000	m						
VBR	Vibration	10 ~ 500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G						
Vsl	Surge Voltage	Line-Neutral			1	kV						
Vsg	Surge Voltage	Line-PE & Neutral-PE			2	kV						



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SPECIFICATION NOTE:

- Output can provide up to peak load when the power supply starts up.
 Continuous staying in more than rated load is not allowed.
- 2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- 3. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing ±40% of measured output load from 60% rated load.
- Ripple & noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
- Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.

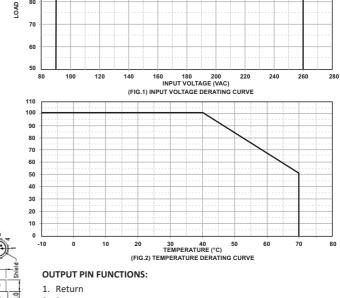
188.0±1.0 [7.40±0.04]

7. Efficiency is measured at rated load, and nominal line.

MECHANICAL DIMENSIONS: (UNIT: mm)

Input Cord Not Included, Contact Beta Dyne Sales

89.5±1.0 [3.52±0.04]



130W External Medical Grade Power Supply

2. Return

100

90

- 3. Vout
- 4. Return
- 5. Vout Shield = GND

OUTPUT CABLE DETAILS:

- 1. MPU130-105 is required to use AWG#16*5C/4FT output cable.
- 2. MPU130-108 is required to use AWG#18*4C/4FT output cable.
- 3. The regulation and efficiency will be changed by modifying the output cable.

PACKING:

- 1. Net weight: 778~800g approx.
- 2. Optional output connectors available contact sales for details.

(OPTIONAL) * AC INPUT IEC 320-C14 INLET

*Other output connectors and input configurations are available. Contact Beta Dyne Sales for details.

Rating Chart:

ON/OFF SWITCH

MODEL NO.	Output Voltage (Factory set, can't be adjusted. Contact Beta Dyne Sales for other options)	Output Current	Maximum Output Power	Ripple & Noise	Total Regulation	Typ. Efficiency	Typ. No Load Consumption	Hold-Up Time	Protection Mode
	(VDC)	(A)	(W)	(mVp-p)	(%)	(%)	(W)	(ms)	Ф
MPU130-105	12.0	10.84	130	100	±5	86.1	0.5	16	Hiccup
MPU130-108	24.0	5.42	130	100	±3	88.7	0.5	16	Hiccup