medica

SINPRO

HPU40 series

The HPU40 series of AC/DC switching mode power supplies provide 40 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, TUV T-mark and conformity assessment in CE marking. All units pass burn-in test at full load condition.





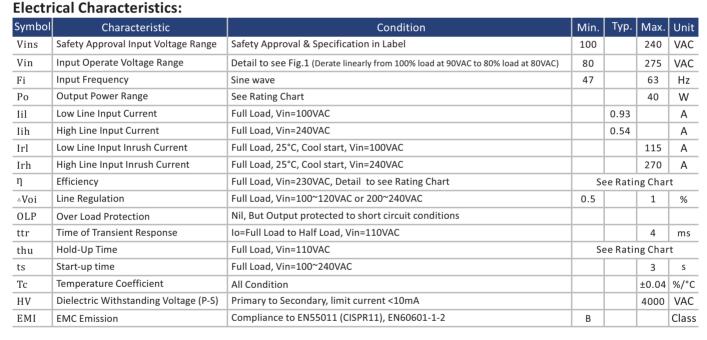


- * Breathing Therapy Device
- * Blood Pressure system
- * Portable medical device
- * FCG \ FFG
- * Medical Tablet

GENERAL SPECIFICATION:

- * Short Circuit Protection: Auto Recovery
- * Cooling: Free Air Convection
- * Flammability Rating: UL94V-1
- * Protection Classes: Double insulated, Class II
- * Safety: IEC60601-1 Edition3.1, ES60601-1:2005(R2012), CSAC22.2 NO.60601-1:14, EN60601-1:2006/A1:2013, IEC60950-1:2005/A2:2013

APPROVALS:



Environmental:

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)	-20		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	200k			h
ELEV	Operating Altitude (Elevation)	All condition			5000	m
VBR	Vibration	10 ~ 500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
Vsl	Surge Voltage	Line-Neutral			1	kV

40W Interchangeable Medical Grade Power Supply

FEATURES:

- * Wide Operating Voltage, 80 to 275 VAC, 47 to 63 Hz
- * Interchangeable Plug
- * Single Output
- * Short Circuit Protection
- * Input to Output: 2MOPP
- * High ESD immunity
- * Suitable home healthcare environment
- * Suitable professional healthcare facility
- * 3 year warranty



medical

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HPU40 series

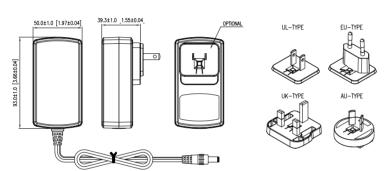
V2.3

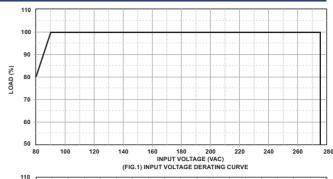
40W Interchangeable Medical Grade Power Supply

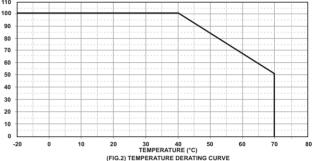
SPECIFICATION NOTE:

- 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 $\pm 40\%$ of measured output load from 60% rated load.
- The ripple is measured from peak to peak with a bandwidth-limit of 20MHz (Measured at the output connector with a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor).
- 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.
- 7. Efficiency is measured at rated load, and nominal line.

MECHANICAL DIMENSIONS: (UNIT: mm)







OUTPUT CABLE RECOMMEND:

- 1. Selected output connectors and wire, please refer to Appendix.
- 2. HPU40-102~104 are required to use AWG#14 2C/4FT output cable.
- 3. HPU40-105~107 are required to use AWG#16 2C/4FT output cable.
- 4. HPU40-108~111 are required to use AWG#18 2C/4FT output cable.
- 5. The regulation and efficiency will be changed by modified output cable.

PACKING:

- 1. Net weight: 225g approx.
- 2. Optional output connectors available contact sales for details.

Rating Chart:

MODEL NO.	Setting Voltage Range (Factory setting, can't be adjusted)		Output Current (Based on the output volt.)		Maximum Output Pow	Ripple & Noise	Total Regulatio	Typ. Efficiency	Typ. No Load Consumption	Hold-Up Time	Protection
	min (VDC)	max (VDC)	min (A)	max (A)	ower (W)	(mVb-b)	tion (%)	(%)	(M)	ਜ਼ਿ (ms)	Mode
HPU40-102	5.0	5.99	5.00	5.00	30	100	±5	85	0.1	8	Hiccup
HPU40-103	6.5	8.0	3.75	4.61	30	100	±5	86.95	0.1	8	Hiccup
HPU40-104	8.0	11.0	3.18	4.38	35	100	±5	87.35	0.1	8	Hiccup
HPU40-105	11.0	13.0	3.07	3.64	40	100	±5	87.59	0.1	8	Hiccup
HPU40-106	13.0	16.0	2.50	3.07	40	120	±5	87.59	0.1	8	Hiccup
HPU40-107	16.0	21.0	1.90	2.50	40	120	±5	87.59	0.1	8	Hiccup
HPU40-108	21.0	27.0	1.48	1.90	40	120	±3	87.59	0.1	8	Hiccup
HPU40-109	27.0	33.0	1.21	1.48	40	120	±3	87.59	0.1	8	Hiccup
HPU40-110	33.0	40.0	1.00	1.21	40	200	±3	87.59	0.1	8	Hiccup
HPU40-111	40.0	48.0	0.83	1.00	40	200	±3	87.59	0.1	8	Hiccup