Genera

EPU15 series

The EPU15 series of AC/DC switching mode power supplies provide 15 Watts of continuous output power. All supplies are UL 94V-1 min compliant. All models meet FCC Part-15 class B and CISPR-22 class B emission Limits and are designed to comply with UL/c-UL(UL 60950-1:2nd Edition), TUV/GS(EN 60950-1:2nd Edition) and new CE requirements. All units are 100% burned in and tested.



RoHS₂ 2011/65/EU

APPLICATIONS:

- * Ethernet Hub

- * Cooling: Free Air Convection
- * Protection Classes: Double insulated, Class II

Electrical Characteristics:

APPROVALS:

M

Symbol	Characteristic	Condition	Min.	Тур.	Max.	Unit
Vins	Safety Approval Input Voltage Range	Safety Approval & Specification in Label			240	VAC
Vin	Input Operate Voltage Range	Detail to see Fig.1	90		264	VAC
Fi	Input Frequency	Sine wave	47		63	Hz
Ро	Output Power Range	See Rating Chart			15	W
Iil	Low Line Input Current	Full Load, Vin=100VAC			0.4	Α
Iih	High Line Input Current	Full Load, Vin=240VAC			0.2	Α
Irl	Low Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=100VAC	35		45	Α
Irh	High Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=240VAC	70		90	Α
Ik	Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.25	mA
η	Efficiency	Full Load, Vin=230VAC, Detail to see Rating Chart	See Rating Chart			
△Voi	Line Regulation	Full Load, Vin=100~120VAC			1	%
△VoL	Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	4		5	%
OLP	Over Load Protection	Nil.But,Output protected to short circuit conditions				
ttr	Time of Transient Response	Full Load, Vin=110VAC			4	ms
thu	Hold-Up Time	Full Load, Vin=100VAC	See Rating Chart			
ts	Start-up time	Full Load, Vin=100~240VAC			3	s
Тс	Temperature Coefficient	Full load, Vin=100~240VAC			±0.04	%/°C
HV	Dielectric Withstanding Voltage (P-S)	Primary to Secondary			4242	VDC
EMI	EMC Emission	Compliance to EN55022 (CISPR22)			В	Class

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)	0		70	°C
Ts	Storage Temperature	10 ~ 95% RH	-40		85	°C
Но	Operating Humidity	non-condensing	0		95%	RH
Hs	Storage Humidity	See Rating Chart	0		95%	RH
ESDa	Electro Static Discharge	Air Discharge, IEC61000-4-2			8	kV
ESDc	Electro Static Discharge	Contact Discharge, IEC61000-4-2			6	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

SINPRO

15W Interchangeable Power Supply for General Purpose

FEATURES:

- * Wide Operating Voltage 90 to 264 VAC,47 to 63 Hz
- * Interchangeable Plug
- * Optional Output Connector (See page appendix)
- * Single Output
- * Class II system
- * DoE 6, CoC V5 (tier2)
- * 1 year warranty

- * Portable Devices
- * Charger
- * Monitor
- * Set-top Box
- * AV Equipment

GENERAL SPECIFICATION:

- * Short Circuit Protection: Auto Recovery
- * Flammability Rating: UL94V-1
- * Safety: UL/c-UL(UL 60950-1:2nd Edition), TUV/GS(EN 60950-1:2nd Edition)

Genera

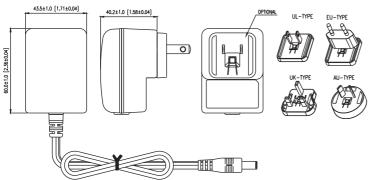
<u>9 SINPRO</u>

EPU15 series

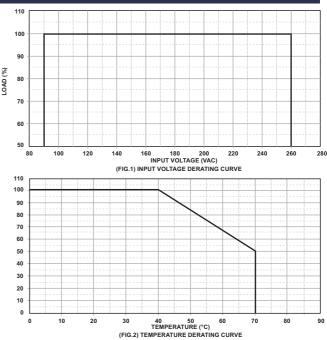
SPECIFICATION NOTE :

- 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 ±10% of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing $\pm40\%$ 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.
- 6. 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.
- 8. The specifics for testing the energy efficiency of this Series are outlined in a separate document titled "Test Method for Calculating the Energy Efficiency of Single-Voltage Interchangeable AC-DC and AC-AC Power Supplies (August 11, 2004)," which is available on the ENERGY STAR Website.

MECHANICAL DIMENSIONS: (UNIT: mm)



15W Interchangeable Power Supply for General Purpose



OUTPUT CABLE RECOMMEND :

- 1. Selected output connectors and wire, please refer to Appendix.
- 2. EPU15-102~107 are required to use AWG#18/4FT output cable.
- 3. EPU15-108~111 are required to use AWG#20/4FT output cable.
- 4. The regulation and efficiency will be changed by modified output cable.

PACKING :

- 1. Net weight: 165g 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 Powe	Ripple & Noise	Total Regula	Typ. Efficiency	No Load Consumption	Hold-Up Time	Protection
	min	max (VDC)	min (A)	max (A)	er (W)	रहें (mVp-p)	ulation (%))CY (%)	9 (W)	ਕ (ms)	Mode
	(VDC)										
EPU15-102	5.0	5.99	2.00	2.40	12	100	±5	80	0.1	8	OLP
EPU15-103	6.5	8.0	1.50	1.84	12	100	±5	83	0.1	8	OLP
EPU15-104	8.0	11.0	1.22	1.68	13.5	100	±5	83.6	0.1	8	OLP
EPU15-105	11.0	13.0	1.15	1.36	15	100	±5	84.13	0.1	8	OLP
EPU15-106	13.0	16.0	0.94	1.15	15	100	±5	84.13	0.1	8	OLP
EPU15-107	16.0	21.0	0.72	0.94	15	100	±5	84.13	0.1	8	OLP
EPU15-108	21.0	27.0	0.55	0.72	15	100	±4	84.13	0.1	8	OLP
EPU15-109	27.0	33.0	0.45	0.55	15	100	±4	85	0.1	8	OLP
EPU15-110	33.0	40.0	0.37	0.45	15	100	±4	86	0.1	8	OLP
EPU15-111	40.0	48.0	0.32	0.37	15	100	±4	86	0.1	8	OLP