

IPU26 series

V2.4

25W Interchangeable Power Supply for General Purpose

The IPU26 series of AC/DC switching mode power supplies provide 25 Watts of continuous output power. All models meet EN 55032, BS EN55032 class B and AS/NZS CISPR 32 class B emission limits and are designed to comply with cTUVus and CE marking conformity assessment. All units pass burn-in test at full load condition.



FEATURES:

- Wide Operating Voltage 80 to 275 VAC, 47 to 63 Hz
- Interchangeable Plug
- Optional Output Connector (See Appendix)
- Single Output
- DoE VI
- 5-Year Warranty

APPLICATIONS:

- Ethernet Hub
- Portable Devices
- Charger
- Monitor
- Set-Top Box
- AV Equipment

GENERAL SPECIFICATION:

- **Short Circuit Protection:** Auto Recovery
- **Cooling:** Free Air Convection
- **Protection Classes:** Double Insulated, Class II
- **Safety:** IEC 62368-1 Edition 2.0, UL 62368-1, CAN/CSA-C22.2 NO. 62368-1, EN 62368-1

Electrical Characteristics:

Characteristic	Condition	Min.	Typ.	Max.	Unit
Safety Approval Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Input Operate Voltage Range	Detail to See Fig.1	80		275	VAC
Input Frequency	Sine Wave	47		63	Hz
Output Power Range	See Rating Chart			25	W
Low Line Input Current	Full Load, Vin=100VAC		0.70		A
High Line Input Current	Full Load, Vin=240VAC		0.29		A
Low Line Input Inrush Current	Full Load, 25°C, Cool Start, Vin=100VAC	25		50	A
High Line Input Inrush Current	Full Load, 25°C, Cool Start, Vin=240VAC	50		120	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.25	mA
Efficiency	Full Load, Vin=230VAC, Detail to See Rating Chart	See Rating Chart			
Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	3		5	%
Over Load Protection	Nil.But, Output Protected to Short Circuit Conditions				
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=110VAC	See Rating Chart			
Start-up time	Full Load, Vin=100~240VAC			3	s
Temperature Coefficient	Full load, Vin=100~240VAC			±0.04	%/°C
Dielectric Withstanding Voltage (P-S)	Primary to Secondary			4242	VDC
EMC Emission	Compliance to EN55032 (CISPR32)			B	Class

Environmental:

Characteristic	Condition	Min.	Typ.	Max.	Unit
Operating Temperature	Detail to see Fig.2 (Derate Linearly from 100% Load at 40°C to 50% Load at 70°C)	-20		70	°C
Storage Temperature	10 ~ 95% RH	-40		85	°C
Operating Humidity	Non-Condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			8	kV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			4	kV
Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	100k			h
Operating Altitude (Elevation)	All Condition			2000	m
Vibration	10 ~ 500Hz, 10min./1Cycle, 60min. Each Along X, Y, Z Axes			5	G
Surge Voltage	Line-Neutral			1	kV
Surge Voltage	Line-PE & Neutral-PE			2	kV

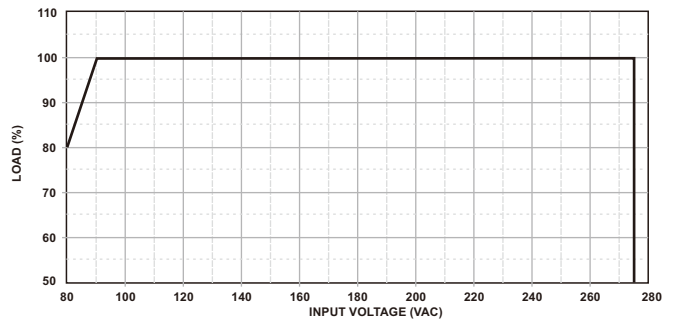
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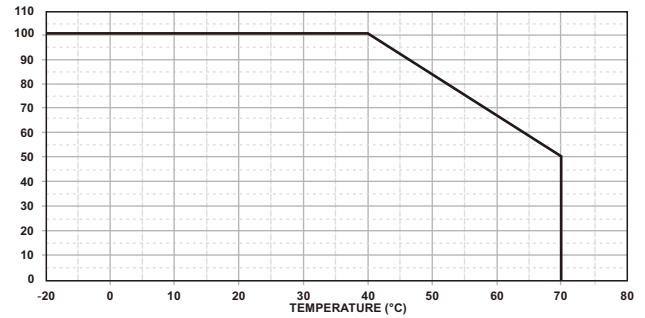
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SPECIFICATION NOTE :

1. 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.
5. 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).
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.

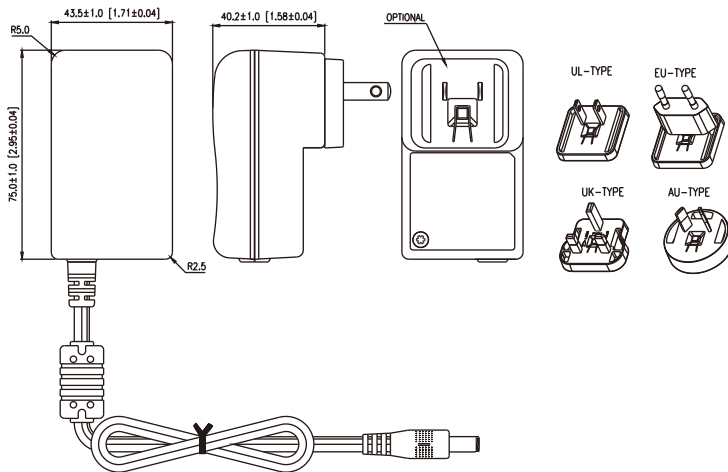


(FIG.1) INPUT VOLTAGE DERATING CURVE



(FIG.2) TEMPERATURE DERATING CURVE

MECHANICAL DIMENSIONS: (UNIT: mm [inch])



OUTPUT CABLE RECOMMEND :

1. Selected output connectors and wire, please refer to Appendix.
2. IPU26-102~109 are required to use AWG#18×2C/4FT output cable.
3. IPU26-110~111 are required to use AWG#20×2C/4FT output cable.
4. The regulation and efficiency will be changed by modified output cable.

PACKING :

1. Net weight: 200g 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 Power (W)	Ripple & Noise (mVp-p)	Total Regulation (%)	Typ. Efficiency (%)	Typ. 10% Load Efficiency (%)	Typ.No Load Consumption (W)	Hold-Up Time (ms)	Protection Mode
	min	max	min	max								
	(VDC)	(VDC)	(A)	(A)								
IPU26-102	5.0	5.99	2.75	3.30	16.5	60	±5	82	73.08	0.1	12	Hiccup
IPU26-103	6.5	8.0	2.50	3.07	20	80	±5	85.5	75.97	0.1	12	Hiccup
*IPU26-104	8.0	11.0	2.00	2.75	22	100	±5	85.9	76.42	0.1	12	Hiccup
IPU26-105	11.0	13.0	1.92	2.27	25	100	±5	86.4	76.98	0.1	12	Hiccup
*IPU26-106	13.0	16.0	1.56	1.92	25	120	±5	86.4	76.98	0.1	12	Hiccup
*IPU26-107	16.0	21.0	1.19	1.56	25	200	±5	86.4	76.98	0.1	12	Hiccup
*IPU26-108	21.0	27.0	0.92	1.19	25	200	±3	87	76.98	0.1	12	Hiccup
*IPU26-109	27.0	33.0	0.75	0.92	25	200	±3	87	76.98	0.1	12	Hiccup
*IPU26-110	33.0	40.0	0.62	0.75	25	250	±3	88	76.98	0.1	12	Hiccup
*IPU26-111	40.0	48.0	0.53	0.62	25	300	±3	88	76.98	0.1	12	Hiccup

[*] =MOQ is required. Please contact sales.