

IPU25A SERIES

25W Desk Top Switching Power Supplies For Industrial Equipment

Description:

The IPU25A series of AC/DC switching mode power supplies provide 25 Watts of continuous output power and is well-suited for a variety of applications. All supplies are UL 94V-1 min compliant. All model 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.



Features:

- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Optional Output Connector (See appendix)
- Single Output
- Energy Star 2.0, Efficiency level V
- Class I
- Approved as Limited Power Source (LPS).
- Operating temperature -20~70°C
- 3 year warranty

Safety Approvals:



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Safety Approvals Input Voltage Range		100		240	VAC
	Operate Voltage Range		90		264	VAC
f _{in}	Input Frequency		47		63	Hz
P _o	Output Power Range	V _{in} =90 to 264VAC	0		25	W
V _o	Output Voltage Range		See rating chart			V
I _o	Output Current Range		See rating chart			A
I _{il}	Input Current (Low Line)	I _o =Full load, V _{in} =115VAC			0.55	A
I _{ih}	Input Current (High Line)	I _o =Full load, V _{in} =230VAC			0.3	A
I _{rl}	Low Line Inrush Current	I _o =Full load, 25°C, Cool start, V _{in} =115VAC		20	25	A
I _{rh}	High Line Inrush Current	I _o =Full load, 25°C, Cool start, V _{in} =230VAC		43	50	A
Eff	Efficiency	I _o =Full Load, V _{in} =230VAC	See rating chart			%
REG-i	Line Regulation	I _o =Full Load		0.5	1	%
REG-o	Load Regulation	V _{in} =230VAC	1	3	5	%
OVP	Over Voltage Protection		Nil			%
OCP	Over Current Protection		110		150	%
T _{tr}	Time of Transient Response	I _o =Full Load to Half Load, V _{in} =100VAC			4	mS
Thold	Hold-Up Time	I _o =Full Load, V _{in} =110VAC	12	14	16	mS
T _s	Start Up Time	I _o =Full Load, V _{in} =100VAC		0.25	0.5	S
V _{p-p}	Ripple & Noise (Peak to Peak)	Full Load, V _{in} =90VAC		0.5	1	%
I _{lk}	Safety Ground Leakage Current	I _o =Full Load, V _{in} =240VAC		0.5	0.75	mA
TC	Temperature Coefficient	All output	0.04		-0.04	%/°C
P _{no}	No-Load Power Consumption	No load, V _{in} =230VAC	See rating chart			W

Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
T _{oper}	Operating Temperature		-20	40	70	°C
T _{stg}	Storage Temperature		-40		85	°C
H _o	Operating Humidity		0		95	%
H _r	Storage Humidity		0		95	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.3M			Hrs
P _d	Derate linearly from 100% load at 40°C to 50% load at 70°C					

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Safety Specifications:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
Vpg	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121			VDC
Ris	Isolation Resistance	Test Voltage=500VDC	50			MΩ
CISPR	EMI requirements for CISPR-22	Vin=220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	Vin=120VAC	B			CLASS

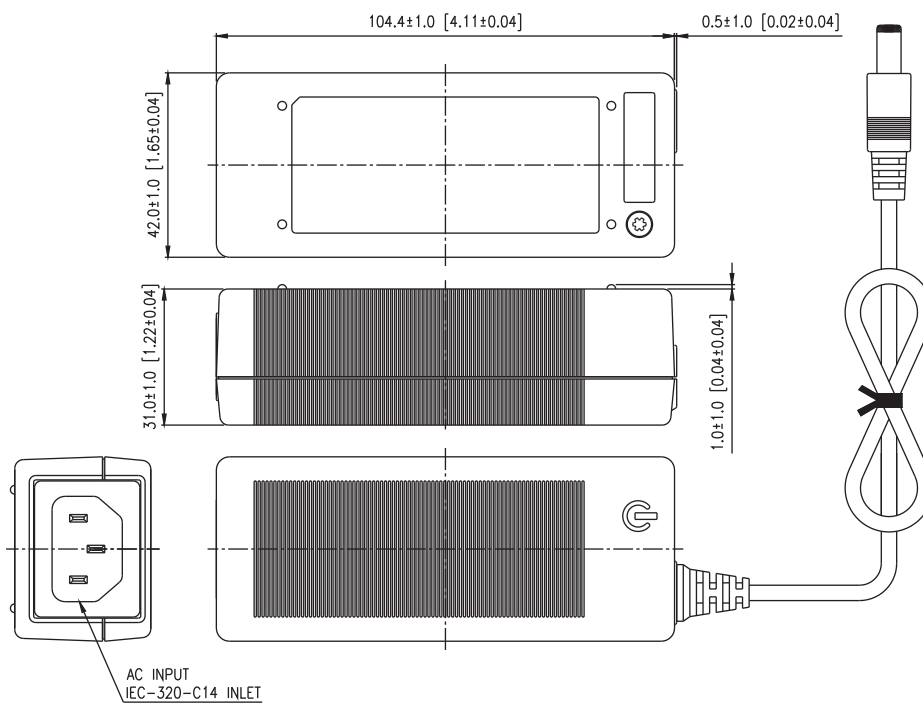
Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Efficiency (min.)	Maximum Output Power	Pno(max.)
IPU25A-102	5 ~ 6 VDC	3.30 ~ 2.75 A	5%	75.23%	16.5W	0.5W
IPU25A-103	6 ~ 8 VDC	3.33 ~ 2.50 A	5%	77%	20W	
IPU25A-104	8 ~ 11 VDC	2.75 ~ 2.00 A	5%	79%	22W	
IPU25A-105	11 ~ 13 VDC	2.27 ~ 1.92 A	5%	82.4%	25W	0.3W
IPU25A-106	13 ~ 16 VDC	1.92 ~ 1.56 A	5%	82.4%	25W	
IPU25A-107	16 ~ 21 VDC	1.56 ~ 1.19 A	5%	83%	25W	
IPU25A-108	21 ~ 27 VDC	1.19 ~ 0.92 A	3%	84%	25W	
IPU25A-109	27 ~ 33 VDC	0.92 ~ 0.75 A	3%	85%	25W	
IPU25A-110	33 ~ 40 VDC	0.75 ~ 0.62 A	3%	85%	25W	
IPU25A-111	40 ~ 48 VDC	0.62 ~ 0.52 A	3%	86%	25W	

IPU25A-102~104 had been approved by CEC level IV.

IPU25A-105~111 had been approved by CEC level V.

Mechanical Specifications :



Note:

1. Dimensions are shown in mm.
2. Weight: 170gs approx.
3. Optional output connector: See page Appendix.