

IPU31 SERIES

30W Desk Top Switching Power Supplies For Industrial Equipment

Description:

The IPU31 series of AC/DC switching mode power supplies provide 30 Watts of continuous output power. All supplies are UL 94V-1 min compliant, include IEC-320-C14 input for worldwide applications. 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), TUV/GS (EN 60950-1) and new CE requirements. All units are 100% burned in and tested.

Features:

- Wide Input Voltage 90 to 264 VAC,47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single Output
- Output Voltage Available From 5 VDC Thru 50 VDC
- Optional Output Connector (See appendix)
- Energy Star 2.0, Efficiency level V
- Class I
- 3 year warranty



Safety Approvals:











Agree to apply for the PSE if order on hand

Electrical Characteristics:

Sym.	Parameter Test Conditions		Min.	Тур.	Max.	Unit
Vin	Input Voltage	Operating Voltage			264	VAC
fin	Input Frequency	out Frequency			63	Hz
Ро	Output Power Range	wer Range Vin=90 to 264VAC			30	M
Vo	Output Voltage Range See rating ch		chart	V		
Io	Output Current Range		See rating char		chart	А
Iil	Input Current (Low Line)	Io=Full load, Vin=115VAC			0.8	А
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			0.5	А
Irl	Low Line Inrush Current Io=Full load, 25 c, Cool start, Vin=115VAC		38	45	А	
Irh	High Line Inrush Current	gh Line Inrush Current Io=Full load, 25 c, Cool start, Vin=230VAC		26	30	А
Eff	Efficiency	ficiency Io=Full Load, Vin=230VAC		81	90	양
REG-i	Line Regulation Io=Full Load			0.5	1	8
REG-o	Load Regulation	Regulation Vin=230VAC		3	7	%
OCP	Over Current Protection		110		150	양
Ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Thold	Hold-Up Time	Io=Full Load, Vin=110VAC				mS
Ts	Start Up Time	Io=Full Load, Vin=100VAC		1	2	S
Vrn	Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		0.5	1	엉
Ilk	Safety Ground Leakage Current	Io=Full Load, Vin=240VAC		0.5	0.75	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/ C
Pno	No-Load Power Consumption	No load, Vin=240VAC	0	0.3	0.5	M

Environmental:

Sym.	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Toper	Operating Temperature		-20		70	೧೦
Tstg	Storage Temperature		-40		85	೧೦
Hr	Relative Humidity		5		95	olo
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F					Hrs
Pd	Derate linearly from 100% load at 40°C to 50% load at 70°C					

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Safety Specifications:

Sym.	Parameter	Test Conditions		Тур.	Max.	Unit
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary				VDC
Vpg	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground				VDC
Ris	Isolation Resistance	Test Voltage=500VDC				МΩ
CISPR	EMI requirements for CISPR-22	Vin=220VAC	В			CLASS
FCC	EMI requirements for FCC PART-15	Vin=110VAC	В			CLASS

Output Voltage And Current Rating Chart (Single Output):

Model Number	Output Voltage	Output Current	Total Regulation	Maximu m Ou tput Power
IPU31-102	5 ~ 6 VDC	4.00 ~ 3.33 A	5%	20W
IPU31-103	6 ~ 8 VDC	4.16 ~ 3.12 A	5%	25W
IPU31-104	8 ~ 11 VDC	3.75 ~ 2.72 A	5%	30W
IPU31-105	11 ~ 13 VDC	2.72 ~ 2.30 A	5%	30W
IPU31-106	13 ~ 16 VDC	2.30 ~ 1.87 A	5%	30W
IPU31-107	16 ~ 21 VDC	1.87 ~ 1.42 A	5%	30W
IPU31-108	21 ~ 27 VDC	1.42 ~ 1.11 A	3%	30W
IPU31-109	27 ~ 33 VDC	1.11 ~ 0.90 A	3%	30W
IPU31-110	33 ~ 40 VDC	0.90 ~ 0.75 A	3%	30W
IPU31-111	40 ~ 50 VDC	0.75 ~ 0.60 A	3%	30W

The output voltage under 15V had been approved by TUV/PSE.

The model number of 104~111 had been approved by CEC level V.

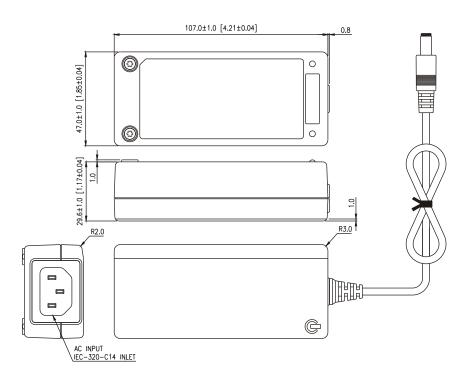
The total regulation on model 101~105 is required to use AWG#16 / 4FT output cable.

The total regulation on model $106\sim108$ is required to use AWG#18 / 4FT output cable.

The total regulation on model 109~111 is required to use AWG#18 / 6FT output cable

The regulation will be changed by modified output cable

Mechanical Specifications:



Note:

- 1. Dimensions are shown in mm.
- 2. Weight: 265~280gs approx.
- 3. Optional output connector: See page Appendix.