Industrial

IPU 100 series

V2 0

The IPU100 series of AC/DC switching mode power supplies provide 100 Watts of continuous output power. All supplies are UL 94V-0 min compliant. All models meet FCC Part-15 class B and 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.



RoHS₂ 2011/65/EU

100W External Power Supply for Industrial Purpose

FEATURES:

- * Wide Operating Voltage, 90 to 260 VAC, 47 to 63 Hz
- * IEC-320-C14 Input Inlet
- * Single Output
- * Crowbar Mode Over Voltage Protection
- * Active Power Factor Correction
- * DoE VI
- * perating temperature -20~70°C
- * 5 year warranty

APPLICATIONS:

- * Printer
- * Industrial PC
- * Power Tools
- * DC Moto
- * AV Equipment
- * LED Lighting

GENERAL SPECIFICATION:

- * Short Circuit Protection: Auto Recovery
- * Cooling: Free Air Convection
- * Flammability Rating: UL94V-1
- * Protection Classes: Class I
- * Safety: IEC 62368-1 Edition 2.0, UL 62368-1, CAN/CSA-C22.2 NO.62368-1-14,

EN 62368-1:2014

Electrical Characteristics:

CECB FC O

APPROVALS:

Symbol	Characteristic	Condition	Min.	Тур.	Max.	Unit	
Vins	Safety Approval Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC	
Vin	Input Operate Voltage Range	Detail to see Fig.1	90		260	VAC	
Fi	Input Frequency	Sine wave	47		63	Hz	
PF	Power Factor Correction	Io=Full load, Vin=240VAC	0.95		1		
Po	Output Power Range	See Rating Chart			100	W	
Iil	Low Line Input Current	Full Load, Vin=100VAC		1.2		Α	
Iih	High Line Input Current	Full Load, Vin=240VAC		0.5		Α	
Irl	Low Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=100VAC			50	Α	
Irh	High Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=240VAC			120	Α	
Ik	Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	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	3		5	%	
OVP	Over Voltage Protection	Over Voltage Protection	112		132	%	
OLP	Over Load Protection	Recovers automatically after fault condition is removed	110		150	%	
ttr	Time of Transient Response	Io=Full Load to Half 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			2	S	
Тс	Temperature Coefficient	Full load, Vin=100~240VAC			±0.04	%/°C	
HV	Dielectric Withstanding Voltage (P-S)	Primary to Secondary			4242	VDC	
Vpg	Dielectric Withstanding Voltage (P-G)	Primary to PE			2121	VDC	
EMI	EMC Emission	Compliance to EN55032 (CISPR32)			В	Class	

Environmental:

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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			8	kV			
ESDc	Electro Static Discharge	Contact Discharge, IEC61000-4-2			4	kV			
MTBF	Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	100k			h			
ELEV	Operating Altitude (Elevation)	All condition			2000	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			