

### 80W Desk Top Switching Power Supplies For Industrial Equipment

**Description:**  
The IPU80 series of AC/DC switching mode power supplies provide 80 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 260 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single Output
- Optional Output Connector (See appendix)
- Input Surge Current, Over Voltage And Over Load protection
- Active Power Factor Correction
- Output Voltage Protection(Crowbar Design)
- Energy Star 2.0, Efficiency level V
- Class I
- Operating temperature -20~70°C
- 3 year warranty

#### Safety Approvals :



#### Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Input Voltage	Operating Voltage	90		260	VAC
fin	Input Frequency		47		63	Hz
PF	Power Factor Correction	Io=Full load, Vin=90~260VAC	0.95	0.97	1.0	
Po	Output Power Range	Vin=90 to 260 VAC	0		80	W
Vo	Output Voltage Range		See rating Chart			V
Io	Output Current Range		See rating Chart			A
Iil	Input Current (Low Line)	Io=Full load, Vin=100VAC			1.07	A
Iih	Input Current (High Line)	Io=Full load, Vin=240VAC			0.5	A
Irl	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		42	45	A
Irh	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		88	92	A
Eff	Efficiency	Io=Full load, Vin=230VAC		87		%
REG-i	Line Regulation	Io=Full load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	7	%
OVP	Over Voltage Protection		112		132	%
OCP	Over Current Protection		110		150	%
Ttr	Time of Transient Response	Io=Full load to Half Load, Vin=100VAC			4	mS
Thold	Hold-Up Time	Io=Full load, Vin=110VAC	16			mS
Ts	Start Up Time	Io=Full load, Vin=100VAC	0.3	1	2	S
Vp-p	Ripple & Noise (Peak to Peak)	Full load, Vin=90VAC		0.5	1	%
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=230VAC			0.5	W

#### Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		-20		70	°C
Tstg	Storage Temperature		-40		85	°C
Hr	Relative Humidity		5		95	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1M			Hrs
Pd	Derate linearly from 100% load at 40°C to 50% load at 70°C					

# IPU80 SERIES

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### Safety Specifications:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V <sub>ps</sub>	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
V <sub>pg</sub>	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121			VDC
R <sub>is</sub>	Isolation Resistance	Test Voltage=500VDC	50			M Ω
CISPR	EMI requirements for CISPR-22	V <sub>in</sub> =220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	V <sub>in</sub> =110VAC	B			CLASS

### Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Out Power
IPU80-105	11 ~ 13 VDC	7.27 ~ 6.15 A	5%	80W
IPU80-106	13 ~ 16 VDC	6.15 ~ 5.00 A	5%	80W
IPU80-107	16 ~ 21 VDC	5.00 ~ 3.80 A	5%	80W
IPU80-108	21 ~ 27 VDC	3.80 ~ 2.96 A	5%	80W
IPU80-109	27 ~ 33 VDC	2.96 ~ 2.42 A	5%	80W
IPU80-110	33 ~ 40 VDC	2.42 ~ 2.00 A	5%	80W
IPU80-111	40 ~ 48 VDC	2.00 ~ 1.66 A	5%	80W

The total regulation on model 105 is required to use AWG#18×3C+ AWG#20×2C/ 4FT output cable.

The total regulation on model 106 is required to use AWG#16×2C/ 4FT output cable.

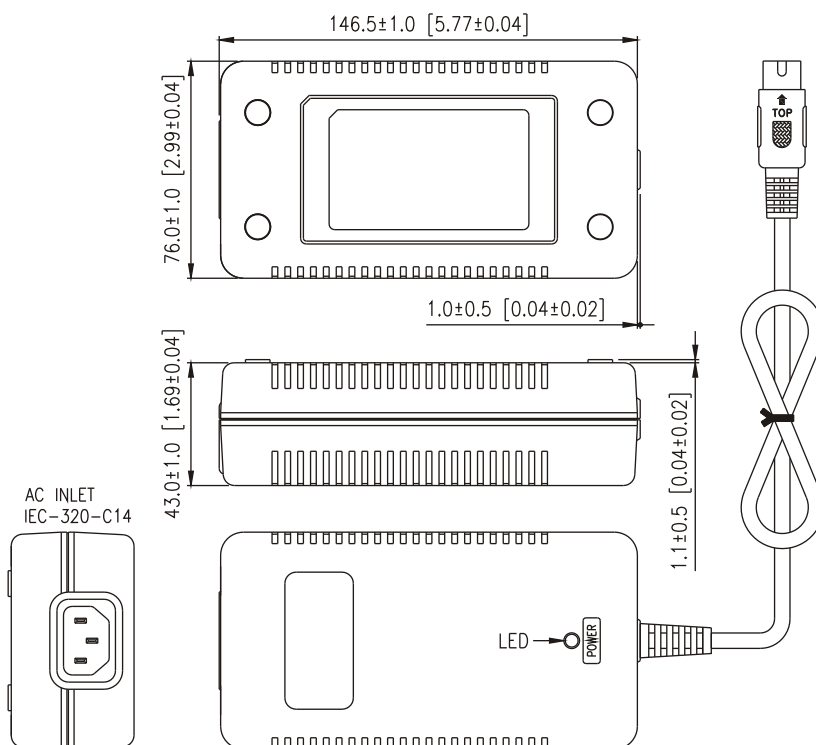
The total regulation on model 107 is required to use AWG#16×2C/ 6FT output cable.

The total regulation on model 108~109 is required to use AWG#18×2C/ 6FT output cable.

The total regulation on model 110~111 is required to use AWG#20×2C/ 6FT output cable.

The regulation and efficiency will be changed by modified output cable.

### Mechanical Specifications:



#### Note:

1. Dimensions are shown in inches or mm.
2. Weight: 600-700gs approx.
3. Optional output connector: See page Appendix.