

PD-12U Series Universal Power Supply



- *100-240V AC input supports all major power standards*
- *50 Hz to 60 Hz input frequency*
- *12V DC, 1.3A rated output*
- *Protection features for over-current, over-voltage, and short-circuit conditions*
- *100,000 hours MTBF*
- *Compliant with RoHS directive 2002/95/EC*
- *Conforms to key EMI and EMS standards*
- *6-foot power cord*
- *US or European power plugs available*

Specifications for PD-12U Series

Specifications	PD-12U Series
Input voltage	100V AC to 240V AC $\pm 10\%$
Input frequency	50 Hz to 60 Hz
Input current	0.45 A max. @ 100-240V AC
Inrush current	27 A max. @ 230V AC cold start at 25° C
Input efficiency	$>75\%$ @ 230V AC and full output load
Output voltage	12V DC $\pm 5\%$
Output load	1.3 A (maximum)
Ripple & noise	100 mV p-p (maximum)
Output overshoot	10% (maximum)
Turn-on delay time	3000 ms (maximum)
Hold-up time	10 ms @ 115V AC / 20 ms @ 230V AC
Transient response	750 mV p-p (maximum)
Insulation resistance	50 M Ω (500V DC) input to output
Leakage current	<3.5 mA at max. input voltage and load
Operating temperature	0° C to 70° C
Storage temperature	-40° C to 70° C
Vibration	1.0 mm, 10-25 Hz, 15 mins. on each axis
Cooling	Convection
MTBF	$>100,000$ hrs @ 25° C (MIL-STD-217F)
Dimensions (H x W x L)	37 mm x 38 mm x 93 mm (power unit)
Weight	368 g (approximate)

Dielectric Withstanding Strength (Hi-Pot)

Primary to secondary	1500V AC, 5 mA
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Safety Standards

	Country	Certification	Standard
UL	USA	Approved	UL 60950
CUL	Canada	Approved	CSA C22.2 No. 950
TUV	Europe	Approved	EN60950-1: 2001
CE	Europe	Approved	Declared & CE Mark
PSE	Japan	Approved	JET
FCC	USA	Meet	Part 15 Class B

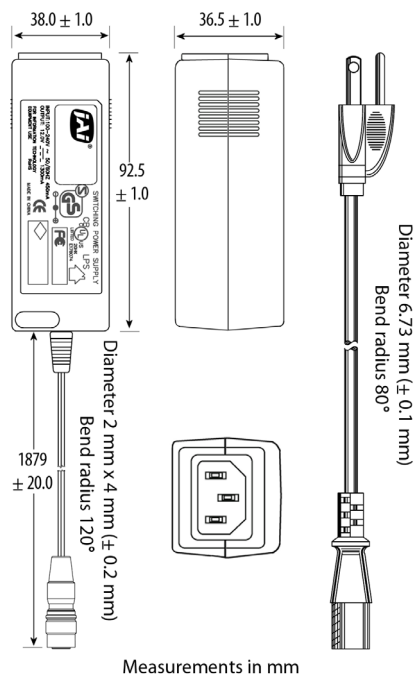
EMC Standards Support

FCC Part 15 Class B, EN55022 Class B
 EN61000-4-2: 1995/A1: 1998 Electrostatic Discharge (ESD)
 EN61000-4-3: 1996/A1: 1998 Radiated Electromagnetic Fields (RS)
 EN61000-4-4: 1995 Electrical Fast Transient/Burst (EFT)
 EN61000-4-5: 1995 Lightning Surge Attachment
 EN61000-4-6: 1996 Conducted Radiated Frequency Disturbances
 EN61000-4-8: Power Frequency Magnetic Field

Ordering Information

PD-12UUP	US power plug, Hirose 12-pin connector to camera
PD-12UEP	European power plug, Hirose 12-pin connector to camera
PD-12UU	US power plug, flying leads (no 12-pin connector)
PD-12UE	European power plug, flying leads (no 12-pin connector)
12P-02S	2-meter power cable for use with PD-12UU or PD-12UE

Dimensions



Protection Features

The PD-12U Series power supply is interrupted any time an over-current or short-circuit condition occurs and provides self recovery when the fault condition is removed. Output voltage is protected any time an over-voltage condition occurs, and self recovers when the over-voltage condition is resolved.

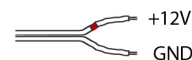
Connector pin-out

DC to Camera



HIROSE HR10A-10P-12S

Flying Leads



PD-12UU & PD12UE

Pin	Signal
1	GND
2	+12V DC
3	NC
4	NC
5	NC
6	NC
7	NC
8	NC
9	NC
10	NC
11	NC
12	NC

Europe, Middle East & Africa
 Phone +45 4457 8888
 Fax +45 4491 3252

Asia Pacific
 Phone +81 45 440 0154
 Fax +81 45 440 0166

Americas
 Phone (Toll-Free) 1 800 445 5444
 Phone +1 408 383 0300



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