



PU012 Series

Constant Current/Voltage Output

Features

- 1). Input voltage range 90-305Vac.
- 2). High efficiency: 85% typical
- 3). Active PFC: 0.97 typical
- 4). IP66 Compliant
- 5). Protection: OVP,OCP,SCP
- 6). Comply with UL8750,UL1310, IEC61347.1,IEC61347-2-13

Electrical Specifications

Input Voltage Range	90~305 VAC
Frequency	47~63 Hz
Power Factor	0.97 at 110Vac 0.94 at 220Vac (typical)
Inrush Current	15 A Max (25°C,at 230 VAC,Cold Start)
Input Current	0.15A Max at 100Vac 0.1A Max at 220Vac
Efficiency	85% typical at Maximum Load
Maximum Power	12W
LineRegulation	±1%
Load Regulation	±3%
Leakage Current	0.3mA Max
Hold-up Time	Half Cycle
Protection	Over Voltage,Over Current,Short Circuit;Auto Recovery

Environmental Specifications

Operating Temperature	-30°C~ +60°C
Storage Temperature	-40°C~ +85°C
Maximum Case Temp.	90°C
Humidity	5% ~ 100%
Cooling Method	Convection
Isolation voltage	Input/output 3000 Vac
Vibration	5-55 Hz 2g, 30 minutes
MTBF	300,000 hours at full load and 25°C ambient
Life Time	100,000 hours at 25°C ambient
Dimensions (L*W*H)	3.35*1.38*0.91 (inches) 85*35*23 (mm)

LED Drivers

Safety & EMC Compliance

CUL	UL 8750,UL1310
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Level B / EN 55015
Radiated emissions	FCC Level B / EN 55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE Field Susceptibility	EN61000-4-3
Electrical Fast Transient	EN61000-4-4
Conducted Radio Frequency	EN61000-4-6
Power Frequency Magnetic Field Test	EN61000-4-8
Voltage Dips	EN61000-4-11
Electromagnetic Immunity	EN61547

Constant Current Versions - Model Specifications

Part Number	Output Current	Output Voltage	Current Accuracy	Typical Efficiency	
				110Vac	220Vac
PU012A025AQ	250mA	24-48VDC	±3%	84%	85%
PU012A035AQ	350mA	18-36VDC	±3%	83%	84%
PU012A050AQ	500mA	12-24VDC	±3%	83%	84%
PU012A080AQ	800mA	8-16VDC	±3%	82%	83%
PU012A100AQ	1000mA	6-12VDC	±3%	82%	83%

Constant Voltage Versions - Model Specifications

Part Number	Output Voltage	Max Output Current	Voltage Accuracy	Typical Efficiency	
				110Vac	220Vac
PU012A048AP	48VDC	250mA	±5%	84%	85%
PU012A036AP	36VDC	350mA	±5%	83%	84%
PU012A024AP	24VDC	500mA	±5%	83%	84%
PU012A016AP	16VDC	800mA	±5%	82%	83%
PU012A012AP	12VDC	1000mA	±5%	82%	83%

Mechanical Outline

