

Features

Universal Input 100~240V AC

Approved to CE, UKCA & RoHS

IEC/EN61558, IEC/EN60950,
IEC/EN61347-2-13, IEC/EN60065,
UL 1310 Safety Approved

Meets Efficiency Level VI

IP68

Single Output 12V DC

OVP, OCP, SCP



81XY50SA-120350VQ-BP

42W External AC/DC Lugged Desktop Power Supply



The 81XY50SA-xyVQ-BP Series is a dependable and suited for lighting integration 42W External AC/DC Lugged Desktop Power Supply. Designed for use in applications such as LED-based applications in commercial and industrial systems. This series is supplied with a UK Fixed input connection and supports input voltages of 90~264V AC 50~60Hz. request.

Models

Part number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Average Efficiency	Ripple & Noise (mVp-p)
81XY50SA-120350VQ-BP	12	3.5	42	85.5%	300

Input Specifications

Rated Voltage Range	100~240Vac
Voltage Range	90-264VAC
Frequency Range	50/60Hz
AC Current	0.5A/115VAC 0.3A/230VAC
Efficiency	81.5%
Leakage Current	<0.25mA max. at 220-240Vac
Inrush Current	Cold start at 230Vac input, with rated load and 25°C ambient

Output Specifications		
Rated Current	3.5A	
Rated Power	42W	±
Ripple & Noise(max.)	300mVp-p	
Voltage Tolerance	+5%	
Line Regulation	+3%	
Load Regulation	+5%	
Setup,Rise,Hold up Time	3Second Max. at 230Vac input and Max.output load, 30mS Max. at 230Vac input and Max. output load. 4mS Min. at 230Vac input and Max. output Load	

Protection		
Over Load	When adjusted to 7.0A MAX output current. Automatic Protection	
Short Circuit	The input power shall decrease when output rail short,the power supply shall no damage and shall be self-recovery when the fault condition is removed	
Over Voltage	When the output voltage is over 150% rated voltage,the power supply will be protected,and will work normally when fault is removed or power on again.	

Environmental Characteristics		
Working TEMP.	0°C to +40°C	
Working Humidity	5%RH to 90%RH	
Storage TEMP. Humidity	-40°C to +80°C 5%RH to 90%RH	
TEMP. Coefficient	0.03%/(0 ~ 40°C)	
Applicable altitude	2Km/ Be equal or less than 2Km	

Safety & EMC		
Safety Standards	IEC/EN60950, IEC/EN61558, IEC/EN61347-2-1, IEC/EN60065, UL 1310	
Dielectric Strength hi-pot	Primary to secondary, 3000Vac(or 4242Vdc) 10mA 60S (2 second for production)	
Isolation Resistance	50MΩ min., add 500Vdc from primary to secondary	
EMI standard:	CISPR15, FCC PART15, EN55015, EN55032, EN55014	
EMS standard	EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-5	
IP Rating	IP68	

Dimensions & Weight		
	Measurements	weight
81XY50SA-120350VQ-BP	AC Wire: H03VVH2-F 2*0.75MM2 A=1500±30mm B=100±10mm SPT-1#20AWG L=1500±100mm 5.5*2.1*10	132g/pcs

Dimensions & Weight		
Carton Size	50x29x38cm	
Master Carton Quantities	100pcs/carton	

Diagram



