

## 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-RS

42W External AC/DC Lugged Desktop Power Supply



"The 81XY50SA-xyVQ-BP-RS 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.

## Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise(max) (mVp-p)
81XY50SA-120350VQ-BP-RS	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%
Inrush Current	Cold start at 230Vac input, with rated load and 25°C ambient
Leakage Current	<0.25mA max. at 220-240Vac

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 current	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.

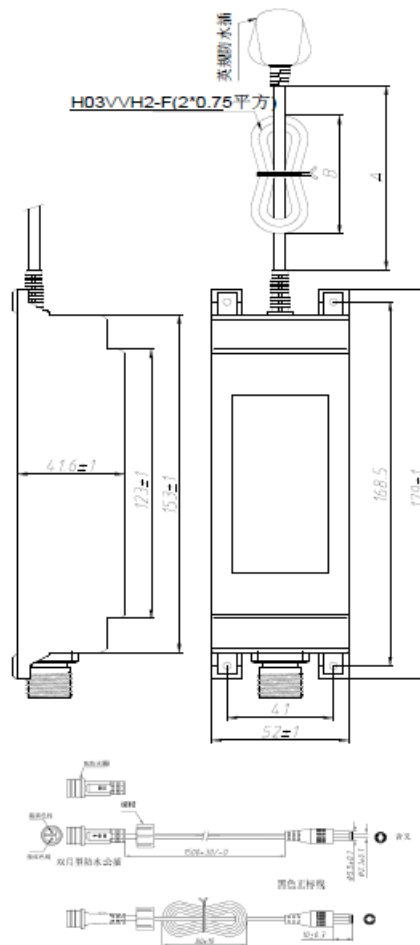
Environmental Characteristics	
Working Temp	0°C to +40°C
Working Humidity	5%RH to 90%RH
Storage Temp., Humidity	-40°C to +80°C 5%RH to 90%RH
Temp. Coefficient	0.03%/(0 ~ 40°C)
Applicable altitude	2Km/ Be equal or less than 2Km

Safety & EMC	
Safety standard	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)
Insulation 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-RS	Not sure	132g/pcs

Packaging	
Carton Size	50x29x38cm
Master Carton Quantities	100pcs/carton

## Outline dimension



## Name plate drawing

