

Features

- Input Voltage Range 220~240V AC
- Working Temperature -20°C ~ +45°C
- Class II Protection Design
- Protection OVP, OLP, SCP
- Constant Voltage
- Waterproof Rated to IP67



Certified to UKCA, CE, RoHS, REACH & IEC 61347-1/IEC 61347-2-13 Standards and complies with the relevant Efficiency Regulations. These are primarily used in LED Lighting Industries and customised solutions are available upon request.

Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise (mVp-p)
56YCL12-1201000	12V	1A	12W		
56YCL12-2400500	24V	0.5A	12W	82	400
56YCL12-3600330	36V	0.33A	12W		
56YCL12-4800250	48V	0.25A	12W		

Input Specifications

Input Voltage	220-240VAC
Frequency Range	50-60Hz
AC Current	0.2AMAX@Full Load
Inrush Current	<65 Amps at 230VAC/50Hz@full load
Leakage Current	<0.25mA/240VAC
THD (Full Load)	<20%
Unload Power Consumption (W)	<0.5
Power Factor	≥0.7@Full Load 220-240VAC

Output Specifications

Voltage Tolerance	±5.0%
Line Regulation	±3.0%
Load Regulation	±5.0%
Set up, Rise, Hold up Time	1s, 10ms/60ms 230VAC @ full load

Protection

Overload	Yes , Above 105%-130% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed
Over Voltage	Yes , 12V:13.8 ~ 16.2V 24V:27.6 ~ 32.4V 36V:41.4~48.6V 48V : 55.2~64.8V Protection type: Shut down o/p voltage, re-power on to recover
Short Circuit	Yes , Protection type:Hiccup mode, recovers automatically after fault condition is removed

Environmental Characteristics

Operating Temp TA	-20°C ~ +45°C
Storage Temp	-40°C ~ +85°C
Maximum Case Temperature Tc	+85°C
Humidity	20 ~ 95% RH
Lifetime	>30000hours@ta 40°C

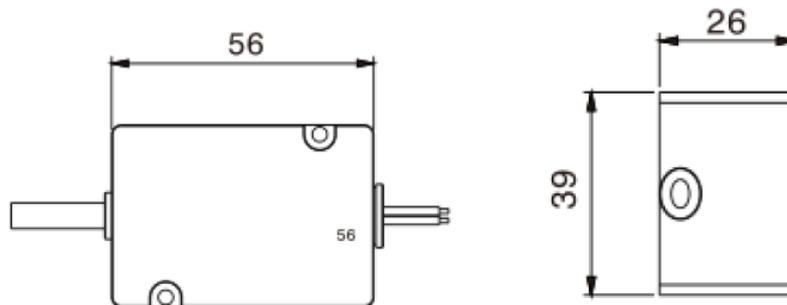
Safety & EMC

Safety Standards	EN61347-2-13:2014+A1:2017,EN61347-1:2015+A1:2021;EN62493:2015
Withstand Voltage	I/P-O/P:3750VAC
Harmonic	EN61000-3-2 Class C EN61000-3-3
EMI	Compliance to EN55015
EMS	Compliance to EN61547:2009

Other

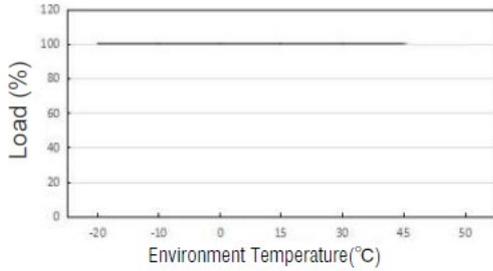
MTBF	200,000 Hours Minimum at Full Load at 25°C Ambient
Case Material and Size	Plastic
IP Grade	IP67
Size	56*39*26mm
Weight	110g / pcs
Packaging	100PCS/CTN

Dimensions and Installation

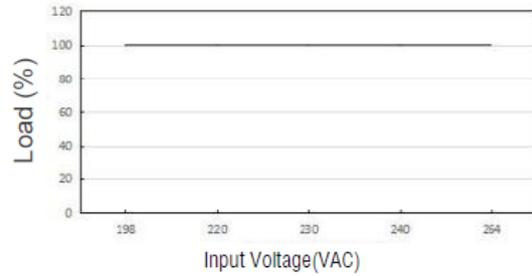


Curves

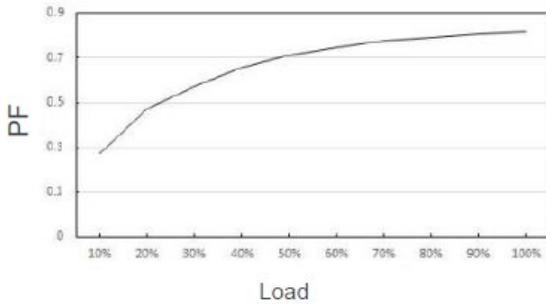
Deduction Curve and Temperature



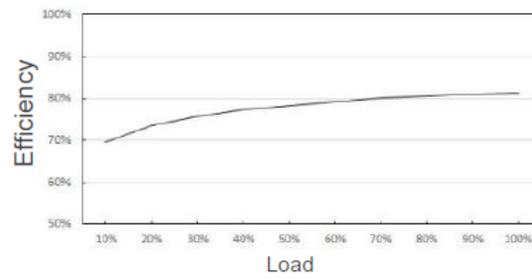
Minus Output and Input Voltage Curves



Power Factor (PF)



Efficiency vs load



Wiring Diagram



AC	H05RN-F 2*1.0mm ² VDE
DC	SVT 18AWG*2C 105°C 300V