Features

- Universal Input 90~264VDAC
- Direct UK Fixed Plugtop Adapters
- Approved to UKCA & RoHS
- EN IEC 62368-1 Safety Approved
- EMC Class B Certified
- Single Output 7.5V DC
- OVP, OLP, SCP

56YS16B-xy-RS Series

18W External AC/DC UK Plugtop Adapter Power Supply

The 56YS16B-xy-RS Series is a consistent and high-performing 18W External AC/DC UK Plugtop Adapter Power Supply. Designed for use in applications such as embedded electronics and control equipment. This series is supplied with a UK Fixed input connection and supports input voltages of 90~264V AC 50~60Hz.

Model Number Information

56YS16	xy	B
Series Name	Output Voltage	British plug

Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise(max) (mVp-p)
56YS16-0752000-RS	7.5	2	15	84	75

Input Specifications

Rated Voltage Range	100-240VAC
Voltage Range	90-264VAC
Frequency Range	50/60Hz
AC Current	0.6A/115VAC 0.3A/230VAC
Efficiency	84%
Inrush Current	Cold Start 50A/200us at 230VAC 50Hz Cold Start 30A/200us at 115VAC 50Hz
Leakage Current	<0.25mA/230VAC
No Load Power	100-240VAC

Output Specifications

DC Voltage	7.5V
Rated Current	2A
Rated Power	15W
Ripple & Noise(max.)	75mVp-p
Voltage Tolerance	+5%
Line Regulation	+3%
Load Regulation	+5%
Setup,Rise,Hold up Time	1.0s,60ms,20ms/230VAC(at full load) 2.5s,60ms,12ms/115VAC(at full load)

Protection

Over Load	105~150%
	Hiccup mode, recovers automatically after fault condition is removed.
Short Circuit	Shut down o/p voltage, re-power on to recover.
Over Voltage	120~180%
	Shut down o/p voltage, re-power on to recover.

Environmental Characteristics

Working Temp	-20 ~ +60℃(Please refer to “Derating Curve”section)
Working Humidity	20 ~ 95%RH Non-condensing
Storage Temp., Humidity	-40 ~ +85℃,10 ~ 95%RH Non-condensing
Temp. Coefficient	0.03%/(0 ~ 40℃)
MTBF	215.6Khrs min. MIL-HDBK-217F(25℃)

Safety & EMC

Safety Standards	BS EN IEC 62368-1		
Withstand Voltage	I/P-O/P: 3KVAC/1min		
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH		
EMC Emission	Parameter	Standard	Test Level
	Conducted	BS EN55032(CISPR32)	CLASS B
	Radiated	BS EN55032(CISPR32)	CLASS B
	Harmonic Current	BS EN61000-3-2	CLASS B
	Voltage flicker	BS EN61000-3-3	CLASS B
EMC Immunity	Parameter	Standard	Test Level
	ESD	BS EN61000-4-2	Level 3, 8KV air, criteria A
	Radiated Susceptibility	BS EN61000-4-3	Level 3, criteria A
	EFT/Burest	BS EN61000-4-4	Level 3, criteria A
	Surge	BS EN61000-4-5	Level 4, 2KV/L-N, criteria A
	Conducted	BS EN61000-4-6	Level 3, criteria A
	Magnetic Field	BS EN61000-4-8	Level 4, criteria A
	Voltage Dips and interruptions	BS EN61000-4-11	＞ 95% dip 0.5 periods, 30% dip 25 periods, ＞95% interruptions 250 periods＞

Notes:

1. All parameters without special description are measured under the conditions of input 230VAC, rated load, ambient temperature 25 ° C, and ambient humidity less than 75%.
2. Ripple & noise are measured from peak to peak with a bandwidth limit of 20MHz(0.1uf and 47uf /50V parallel capacitor under DC output full load, AC nominal input 25 ℃ ambient temperature).
3. Tolerance: includes set up tolerance, line and load regulation.
4. Derating may be needed under low input voltages. Please check the derating curve for more details.
5. The power supply is considered a component which will be installed into the final equipment. The final equipment must be confirmed to meet EMC directives. For guidance on performing these EMC tests, please refer to “EMI testing of component power supplies."
6. The ambient temperature derating of 3.5℃/1000m is needed for operating altitude greater than 2000m(6500ft).

Dimensions & Weight

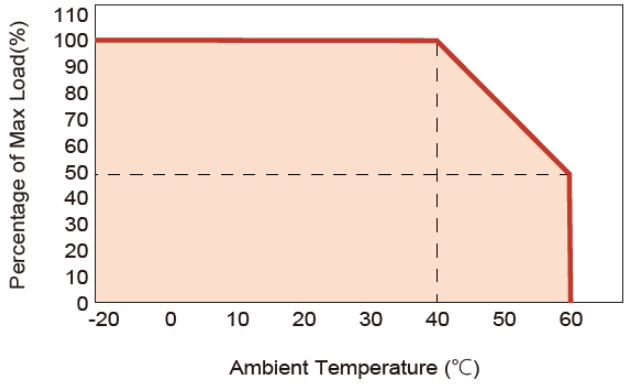
	Measurements	Weight
56YS16-0752000-RS	70 x 53 x 33 mm	180g/pcs

Packaging

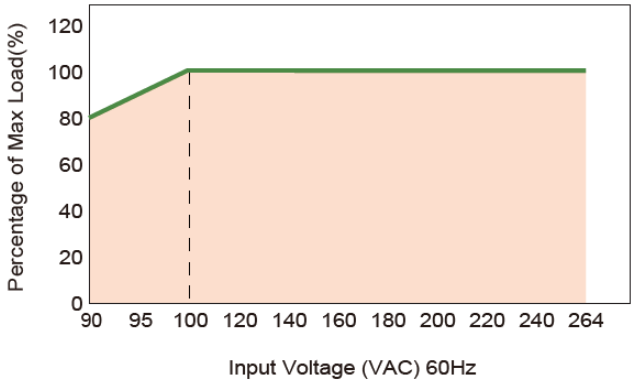
Carton Size	45 x 28.5 x 32 cm
Master Carton Quantities	100pcs/carton

Derating Curves

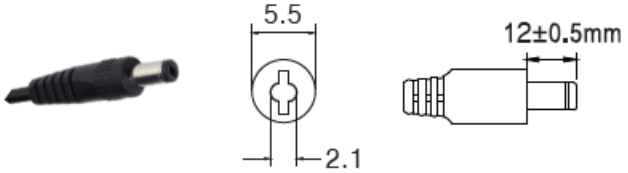
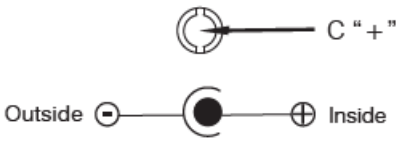
1. Derating Curve



2. Static Characteristics



DC Output Plug (Option)

Standard Model : D1J

D1J	Pin Assignment