

Features

Universal Input 90~264VDAC

Direct UK Fixed Plugtop Adapters

Approved to UKCA, CE & RoHS

BS EN IEC 62368-1 Safety Approved

Meets Efficiency Level VI & (EU) 2019/1782

EMC Class B Certified

Single Output 5V DC

OVP, OLP, SCP



56YS6B-xy-RS Series

6W External AC/DC UK Plugtop Adapter Power Supply



The 56YS6B-xy-RS Series is a regulated and reliable 6W External AC/DC UK Plugtop Adapter Power Supply. Designed for use in applications such as system-critical media and control infrastructure.. This series is supplied with a UK Fixed input connection and supports input voltages of 90~264V AC 50~60Hz.

Model Number Information				
56YS6B	6	В	xx	
Series Name	Rated Wattage	British Plug	Output Voltage	

Models					
Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise(max.) (mVp-p)
56YS6-0501000B-D1J-RS	5	1	5	80	240
56YS6-2400250B-RS	24	0.25	6	80	240



Input Specifications			
D (1)/ D	100 010 / 10		
Rated Voltage Range	100-240VAC		
Voltage Range	90-264VAC		
Frequency Range	50/60Hz		
AC Current	0.2A/115VAC	0.15A/230VAC	
Efficiency	80%		
Inrush Current	Cold Start 50A/200us at 230VAC 50Hz		Cold Start 30A/200us at 115VAC 50Hz
Leakage Current	<0.25mA/230VAC		
No Load Power	<0.1W		

Output Specifications				
DC Voltage	5V	24V		
Rated Current	1A	0.25A		
Rated Power	5W	6W		
Ripple & Noise(max.)	240mVp-p			
Voltage Tolerance	5%			
Line Regulation	5%			
Load Regulation	3%			
Setup,Rise,Hold up Time	1.0s,30ms,25ms/	230VAC(at full load)	2.0s,30ms,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 Charac	teristics
Working Temp	-20 ~ +70°C(Please refer to "Derating Curve"section)
Working Humidity	20 ~ 95%RH Non-condensing
Storage Temp., Humidity	-40 ~ +85°C,10 ~ 95%RH Non-condensing
Temp. Coefficient	0.03%/(0 ~ 40°C)
MTBF	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes -(56YS6-0501000B-D1J-RS)
IVIIDE	245.8Khrs min. MIL-HDBK-217F (25°C) – (56YS6-2400250B-RS)



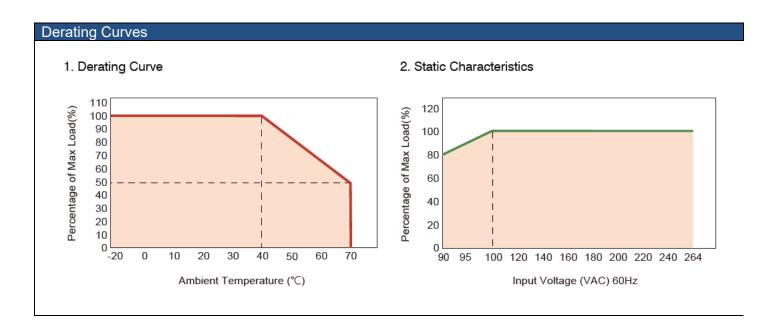
Safety & EMC							
Safety Standards	BS EN IEC 62368-1						
Withstand Voltage	I/P-O/P: 3KVAC/1min	I/P-O/P: 3KVAC/1min					
Isolation Resistance	I/P-O/P:100M Ohms / 500VE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH					
	Parameter	Standard	Test Level				
	Conducted	BS EN55032(CISPR32)	CLASS B				
	Radiated	BS EN55032(CISPR32)	CLASS B				
EMC Emission	Harmonic Current	BS EN61000-3-2	CLASS B				
	Voltage flicker	BS EN61000-3-3	CLASS B				
	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				
EMC Immunity	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,				

Notes:

- 1. Tolerance: includes set up tolerance, line regulation and load regulation.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3.Line regulation is measured from low line to high line at rated load.
- 4.Load regulation is measured from 0% to 100% rated load.
- 5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25°C of ambient temperature.
- 6. De-rating may be needed under low input voltages. Please refer to "Static Characteristic" sections for details.
- 7. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be
- affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

Measurements		Weight	
62 x 48 x 38 mm		120g Pcs	
120g/pcs; 62 x 48 x 38 cm;			
500pcs/Carton	-56YS6-0501000B-D1J-RS		
100pcs/carton	-56YS6-2400250B-RS		
	Measurements 62 x 48 x 38 mm 120g/pcs; 62 x 4 500pcs/Carton	Measurements 62 x 48 x 38 mm 120g/pcs; 62 x 48 x 38 cm; 500pcs/Carton -56YS6-0501000B-D1J-RS	Measurements Weight 62 x 48 x 38 mm 120g Pcs 120g/pcs; 62 x 48 x 38 cm; 500pcs/Carton -56YS6-0501000B-D1J-RS





Derating Curves

Standard Model: D1J

