

Features

- Input Voltage Range 85-305VAC
- No load power consumption<0.1W
- Approved to UKCA, CE, RoHS
- EN62368-1 Safety Approved
- Isolation Class II
- 89.5% Efficiency
- Single Output 5-48V DC
- Protection: SCP, OLP, OVP

RS PRO Enclosed AC/DC

RS Stock No.: 0813924

0813925

0813926

0813927

0813928



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

- This RS Series is a consistent and reliable 45W Encapsulated AC/DC PCB Mount Power Supply.
- Designed for use in applications such as commercial AV, broadcasting and control panels.
- This series is supplied with a Screw Terminal input connection and supports input voltages of 85~305V AC 47~63Hz.

Electrical Specifications

RS Stock#	Input Voltage	Output Voltage	Output Current	Output Wattage	Efficiency (Typ)	Max. Capacitive Load (uF)
0813924	85~305V AC	5V	8	40	83.5	6000
0813925	85~305V AC	12V	3.8	45	87.5	4400
0813926	85~305V AC	15V	3	45	88	3300
0813927	85~305V AC	24V	1.9	45.6	89.5	700
0813928	85~305V AC	12V	0.94	45.12	89.5	470

Input Specifications

Input Voltage	85-305VAC
Frequency Range	47-63Hz
AC Current	1.5A/115VAC 0.9A/230VAC 0.75A/277VAC
Inrush Current	Cold Start 60A/600us at 230VAC 50Hz Cold Start 30A/600us at 115VAC 50Hz
Leakage Current	<0.25mA/264VAC

Output Specifications

Voltage Tolerance	+2.5%
Line Regulation	+0.5%
Load Regulation	±1.0% 56YMR45-5T/12T-RS models ±0.5% other models
Setup,Rise,Hold up Time	0.2s,35ms,50ms/230VAC(at full load) 0.2s,35ms,5ms/115VAC(at full load)

Protection Specifications

Over Load	115~160%
	Hiccup mode, recovers automatically after fault condition is removed.
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.
Over Voltage	5.25 ~ 7.5V 12.8 ~ 16V 17 ~ 24V 27 ~ 34V 50.4 ~ 63V
	Hiccup mode, recovers automatically after fault condition is removed.

Dimensions & Weight

Measurements	109.3 × 52.7 x 33.9 mm 56YMR45-xxT-RS
Carton Size	31.5×24.5x22cm 50pcs/Carton- 56YMR45-xxT-RS

Safety & EMC

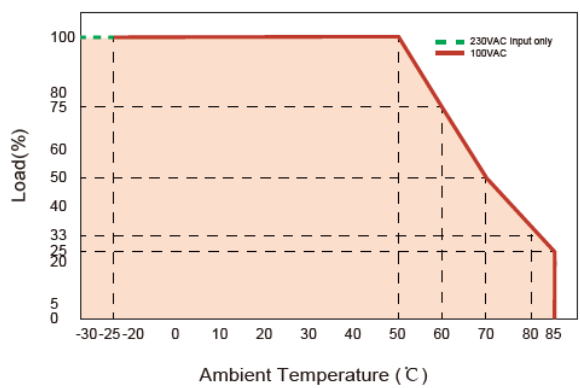
Safety Standards	EN62368-1		
Withstand Voltage	I/P-O/P: 3KVAC/1min		
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH		
EMC Emission	Parameter	EMC Emission	Test Level
	Conducted	BS EN/EN55032(CISPR32)	CLASS B
	Radiated	BS EN/EN55032(CISPR32)	CLASS B
	Harmonic Current	EN61000-3-2	CLASS A
	Voltage flicker	EN61000-3-3	
EMC Immunity	BS EN/EN55035, BS EN/EN61000-6-2		
	Parameter	Standard	Test Level
	ESD	EN61000-4-2	Level 3, 8KV air, Level 2, 4KV contact criteria A
	Radiated Susceptibility	EN61000-4-3	Level 3, criteria A
	EFT/Burst	EN61000-4-4	Level 3, criteria A
	Surge	EN61000-4-5	Level 3, 1KV/L-N, criteria A
	Conducted	EN61000-4-6	Level 3, criteria A
	Magnetic Field	EN61000-4-8	Level 4, criteria A
	Voltage Dips and interruptions	EN61000-4-11	> 95% dip 0.5 periods, 30% dip 25 periods > 95% interruptions 250 periods

Environmental

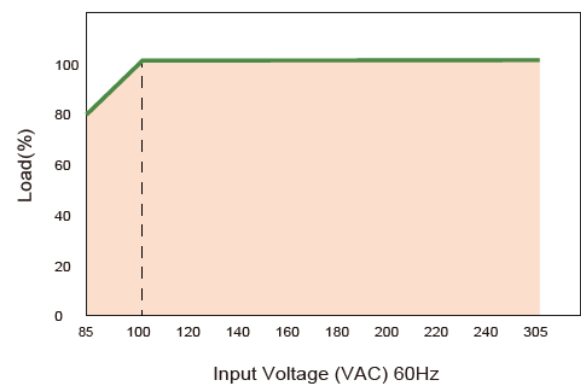
Working Temp	-30 ~ +85°C (Full load can be operated at -30°C to 50°C, while load should be reduced at 50°C to 85°C Refer to "Derating Curve".)
Working Humidity	20 ~ 90%RH Non-condensing
Storage Temp., Humidity	-40 ~ +85°C 10 ~ 95%RH Non-condensing
Temp. Coefficient	± 0.03%/ (0 ~ 40°C)
Soldering Temperature	Wave soldering: 265°C 5s(max.); Manual soldering: 390°C 3s(max.)
Vibration	Terminal Blocks: 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes
MTBF	895.4Khrs min. MIL-HDBK-217F(25°C)
Over Voltage Category	OVC II; According to EN62368-1; altitude up to 2000 meters

Electrical Drawing

Derating Curve



Static Characteristics



(Unit: mm , tolerance: $\pm 0.5\text{mm}$)

