

Features

- Universal Input 85-305VAC
- No load power consumption<0.1W
- Isolation Class II
- UL/EN62368-1 Safety Approved
- 91.5% Efficiency
- Single Output 12-48V DC
- Protections: SCP, OLP, OVP
- Three years warranty

RS PRO Enclosed AC/DC

RS Stock No.: 0813943

0813944

0813945

0813946



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

- RS Series is a high-efficiency and standards-compliant 90W Encapsulated AC/DC Power Supply.
- Designed for use in applications such as industrial control and automation systems.
- This series is supplied with a Pin Connection 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)
0813943	85~305V AC	12	6.7	50	89.5	6800
0813944	85~305V AC	15	5.67	60	90.5	4500
0813945	85~305V AC	24	3.75	60	91	3000
0813946	85~305V AC	48	1.88	60	91.5	470

Input Specifications

Input Voltage	85-305VAC		
Frequency Range	47-63Hz		
AC Current	1.9A/115VAC	1.1A/230VAC	0.9A/277VAC
Inrush Current	Cold Start 100A/800us at 230VAC 50Hz 40A/800us at 115VAC 50Hz		Cold Start
Leakage Current	<0.25mA/264VAC		

Output Specifications

Voltage Tolerance	+2.5%
Line Regulation	+0.5%
Load Regulation	±1.0% 0813931 models ±0.5% Other Models
Setup,Rise,Hold up Time	0.5s,50ms,50ms/230VAC(at full load) 0.5s,50ms,12ms/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	12.6 ~ 16.5V 15.75 ~ 24V 25.2 ~ 34V 50.4 ~ 65V
	Hiccup mode, recovers automatically after fault condition is removed.

Dimensions & Weight

Measurements	56YMR90-xx-RS87 × 52 x 30 mm
Carton Size	48×27.5×16cm 50pcs/Carton- 56YMR90-xx-RS

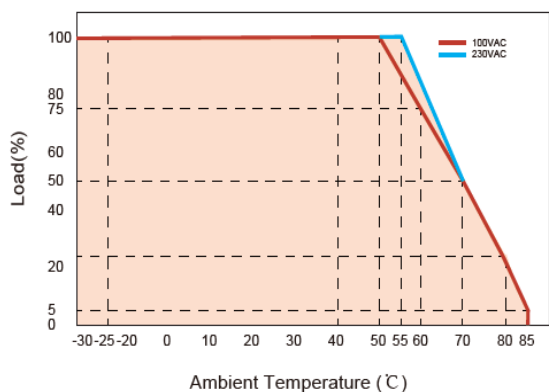
Safety & EMC

Safety Standards	EN 62368-1		
Withstand Voltage	I/P-O/P: 3KVAC/1min		
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH		
EMC Emission	Parameter	Standard	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 B
	Radiated Susceptibility	EN61000-4-3	Level 3, criteria A
	EFT/Burst	EN61000-4-4	Level 3, criteria B
	Surge	EN61000-4-5	Level 3, 1KV/L-N, criteria B
	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)
Working Humidity	Refer to "Derating Curve".)
Storage Temp., Humidity	20 ~ 90%RH Non-condensing
Temp. Coefficient	-40 ~ +85°C, 10 ~ 95%RH Non-condensing
Soldering Temperature	± 0.03%/(0 ~ 40°C)
Vibration	Wave soldering:265°C,5s(max.); Manual soldering:390°C,3s(max.)
MTBF	PCB Mounting: 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
Over Voltage Category	755.4Khrs min. MIL-HDBK-217F(25°C)

Derating Curve



Static Characteristics

