

Features

- Input Voltage Range 85-305VAC
- 88% Efficiency
- OVC II (EN 62368-1 & OVC II (EN 60335-1); 2000m altitude
- Single Output 5-48V DC
- SCP, OLP, OVP

RS PRO Enclosed AC/DC

RS Stock No.: 0813916

0813917

0813918

0813919

0813920



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 performance-focused 30W Encapsulated AC/DC Power Supply.
- Designed for use in applications such as network equipment and signal distribution hardware.
- 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)
0813916	85~305V AC	5V	6A	30W	85%	8000
0813917	85~305V AC	12V	2.5A	30W	87%	5000
0813918	85~305V AC	15V	2A	30W	87%	2000
0813919	85~305V AC	24V	1.25A	30W	87%	1000
0813920	85~305V AC	12V	0.63A	30W	88%	800

Input Specifications

Input Voltage	85-305VAC
Frequency Range	47-63Hz
AC Current	1.0A/115VAC 0.5A/230VAC
Inrush Current	Cold Start 45A/400us at 230VAC 50Hz Cold Start 25A/600us at 115VAC 50Hz
Leakage Current	<0.25mA/264VAC

Output Specifications

Voltage Tolerance	+2.0%
Line Regulation	+0.5%
Load Regulation	±1.0%
Setup,Rise,Hold up Time	1.5s,30ms,40ms/230VAC(at full load) 1.9s,30ms,10ms/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
	Recovers automatically after fault condition is removed.

Dimensions & Weight

Measurements	91 × 39.5 x 28.5 mm 56YMR30-xxT-RS
Carton Size	41.5×25x17cm - 56YMR30-xxT-RS
Weight	113g/pcs

Safety & EMC

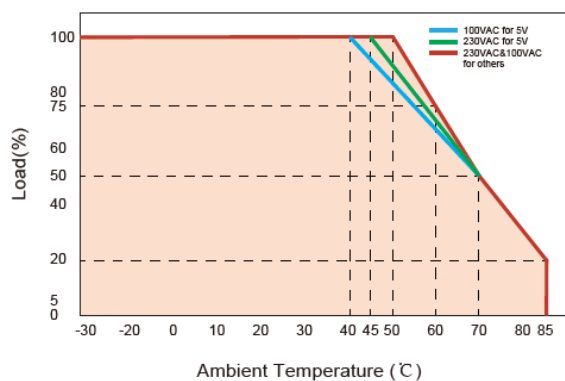
Safety Standards	EN IEC 62368-1, IEC 62368-1, EN 60335-1		
Withstand Voltage	I/P-O/P: 3KVAC/1min		
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH		
EMC Emission	Parameter	Standard	Test Level
	Conducted	BS EN/EN55032(CISPR32)	CLASS B
	Radiated	BS EN/EN55032(CISPR32)	CLASS B
	Harmonic Current	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 A
	Radiated Susceptibility	EN61000-4-3	Level 3, criteria A
	EFT/Burest	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

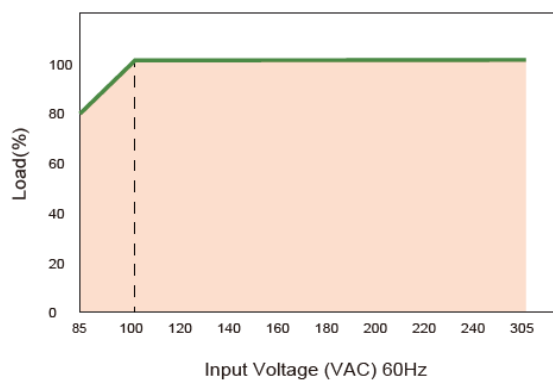
Working Temp	-30 ~ +85□(Full load can be operated at -30□ to 50□, while load should be reduced at 50□ to 85□ Refer to "Derating Curve".)
Working Humidity	20 ~ 90%RH Non-condensing
Storage Temp., Humidity	-40 ~ +85°C10 ~ 95%RH Non-condensing
Temp. Coefficient	± 0.03%/(0 ~ 40°C)
Soldering Temperature	Wave soldering:265°C5s(max.); Manual soldering:390°C3s(max)
Vibration	Terminal Blocks: 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes
MTBF	654.7Khrs min. MIL-HDBK-217F(25°C)
Over Voltage Category	OVC II in accordance with EN 62368-1 or OVC III in accordance with EN 60335-1; altitude up to 2000m

Electrical Drawings

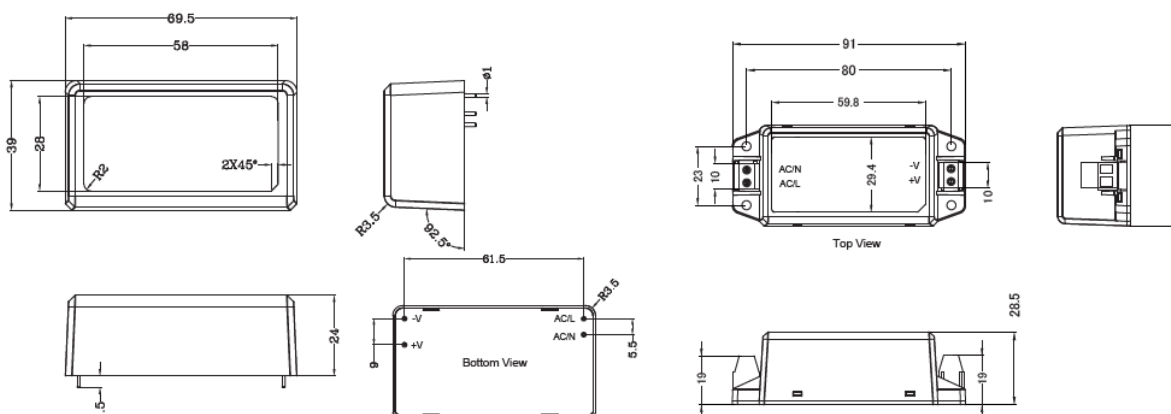
Derating Curve



Static Characteristics



(Unit: mm , tolerance: ± 0.5 mm)



fosc: 65KHz

