

30ACDRSS_4 Series

30W - Single Output AC-DC Converter - Universal Input - Isolated & Regulated Industrial DIN Rail Power Supply



AC-DC Converter

30 Watt

Adjustable

☐ Isolation Class II☐ Class 2/Pass LPS☐ Ultra Slim Step S☐ DC Output Volta Ultra Slim Step Shape DC Output Voltage

Protection: Short Circuit/ Overload/ Over Voltage

⊕ Over Voltage Category II

Introducing our advanced power supply 30ACDRSS 4 series with Isolation Class II and Class 2/Pass LPS certification. Designed in an ultra-slim step shape, this unit features adjustable DC output voltage. It offers robust protection against short circuit, overload, and over voltage, ensuring reliable performance. Additionally, it adheres to Over Voltage Category II standards, making it a versatile and secure choice for various applications.







Common specifications	
Short circut protection:	Hiccup, continuous, self-recovery
Operation temperature range:	-20°C~+70°C
Storage temperature range:	-40°C ~+85°C
Operation humidity range:	20 ~ 95 %RH (Non-condensing)
Storage humidity range:	10 ~ 95 %RH (Non-condensing)
Vibration:	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to EC60068-2-6
Operating altitude:	5000 meters
Over voltage category:	II; According to EN62368-1; altitude up to 2000 meters
Safety regulations:	UL62368-1, BS EN/EN62368-1
Dimensions:	35mm x 90mm x 58mm
Weight:	120g typ.

Input specifications					
Item	Test conditions	Min	Тур	Max	Units
Input Voltage Range	AC input DC input	90 127		264 370	VAC VDC
Input Frequency		47		63	Hz
AC Current	115VAC 230VAC			0.88 0.48	A A
Inrush Current (Cold start)	115VAC 230VAC		25 45		A A

Isolation specifications					
Item	Test condition	Min	Max	Units	
Isolation Test (Input - Output)	I/P-0/P		4000	VAC	
Insulation resistance	I/P-O/P / 500VDC / 2S°C / 70% RH	100		M Ohms	

EMC specifications					
Emissions	BS EN/EN 55032 class B, BS EN/EN IEC 61000-3-2,3				
Immunity	BS EN/EN61000-4-2, 3, 4, 5, 6, 8, 11				

Output specifications						
Item	Test conditions	Min	Тур	Max	Units	
Voltage tolerance				±2.0	% %	
Line regulation				±1	%	
Load regulation				±1	%	
Ripple & Noise* (peak-to-peak value)	20MHz bandwidth 5V Output 12V Output 15V Output 24V Output 48V Output			80 120 120 150 240	mVp-p mVp-p mVp-p mVp-p mVp-p	
Voltage adj. Range		4.5 10.8 13.5 21.6 43.2		5.5 13.8 18 29 55.2	V V V V	
Temp. coefficient	RH non-condensing		±0.03		%/°C (0-50 °C)	
Setup, rise time (at full load)	115VAC 230VAC	50 50		500 500	ms	

30ACDRSS_24S4

30 = 30 Watts; AC = AC-DC; DR = Din Rail; SS = Step shape; 24 = Vout; S = Single Output; 4 = 4kVAC isolation

Protection		
Over load	after fault condition Constant current lim	output voltage <50%, recovers automatically
Over voltage	5.75 ~ 7.5V 15.0 ~ 18.0V 18.8 ~ 22.5V 30.0~ 36.0V 57.6 ~ 67.2V Protection type : Shut of	5V Output 12V Output 15V Output 24V Output 48V Output down o/p voltage, re-power on to recover

- 1. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta = 25°C, humidity <75% with nominal input voltage and rated
- 2. All index testing methods are based on our corporate company standards;
- 3. We may provide product customization service, please contact our technicians directly for specific information;
- 4. Specifications are subject to change without prior notice.
- 5. Products are related to laws and regulations: see "Features" and "EMC";
- 6. Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units.

30ACDRSS 4 Series

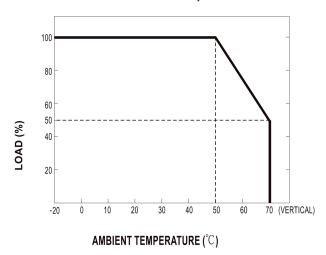
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Product Selection Guide

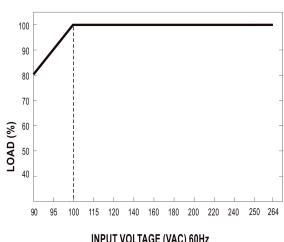
Part Number	Power [W]	Output [Vo, VDC]	Rated Current [A]	Output Voltage Adjustable [Range, V]*	Efficiency at 230VAC [%, Typ.]
30ACDRSS_05S4	15	5	3	4.5 ~ 5.5	82%
30ACDRSS_12S4	24	12	2	10.8 ~ 13.8	88%
30ACDRSS_15S4	30	15	2	13.5 ~ 18	89%
30ACDRSS_24S4	36	24	1.5	21.6 ~ 29	89%
30ACDRSS_48S4	30	48	0.63	43.2 ~ 55.2	90%

Typical characteristics

Deduction Curve and Temperature

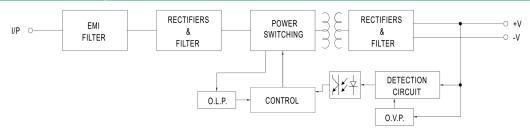


Minus Output and Input Voltage Curves

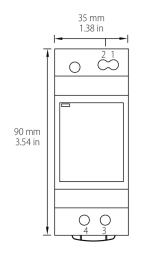


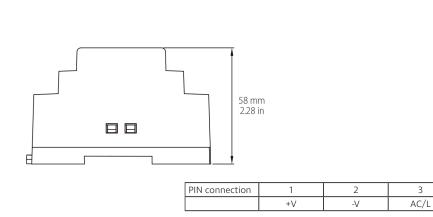
INPUT VOLTAGE (VAC) 60Hz

Functional diagram



Mechanical dimensions





AC/N