

30ACDRSS_4 Series

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

- Isolation Class II
 Class 2/Pass LPS
 Ultra Slim Step S
 C Output Volta
- Ultra Slim Step Shape DC Output Voltage
- Adjustable
- Protection: Short Circuit/ Overload/ Over Voltage 🕀 Over Voltage Category II



AC-DC Converter

30 Watt

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 T	yp Max	< Units
Input Voltage Range	AC input DC input	90 127	264 370	
Input Frequency		47	63	Hz
AC Current	115VAC 230VAC		0.88	
Inrush Current (Cold start)	115VAC 230VAC	2	-	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

Example: 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	105 ~ 160% rated output power Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed Constant current limiting within 50%~100% rated output voltage, recovers automatically after fault condition is removed	
Over voltage	15.0 ~ 18.0V 12V 18.8 ~ 22.5V 15V 30.0~ 36.0V 24	Output / Output / Output V Output V Output ltage, re-power on to recover

Note:

- 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 output load;
- 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.

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Product Selection Guide Output Voltage Adjustable [Range, V]* Efficiency at 230VAC [%, Typ.] Part Number Output **Rated Current** Power [W] [Vo, VDC] [A] 5 4.5 ~ 5.5 82% 30ACDRSS 05S4 3 15 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 48 0.63 43.2 ~ 55.2 90% 30

Typical characteristics

Deduction Curve and Temperature



Minus Output and Input Voltage Curves



INPUT VOLTAGE (VAC) 60Hz

Functional diagram



Mechanical dimensions

