

60ACDRSS_4 Series

 $60\mbox{W}$ - Single Output AC-DC Converter - Universal Input - Isolated & Regulated Industrial DIN Rail Power Supply



AC-DC Converter

60 Watt

 ← Isolation Class II
 ← Class 2/Pass LPS
 ← Ultra Slim Step Shape
 ← DC Output Voltage
 Adjustable

Protection: Short Circuit/ Overload/ Over VoltageOver Voltage Category II Introducing our advanced power supply 60ACDRSS_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 ~ S00Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compilance 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:	52mm x 90mm x 58mm
Weight:	190g 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			1.2 0.8	A A
Inrush Current (Cold start)	115VAC 230VAC		30 60		A A

Isolation specifi	cations				
Item	Test condition	Min	Тур	Max	Units
Isolation Test (Input - Output)	I/P-0/P	4000			VAC
Insulation resistance	I/P-O/P / 500VDC / 25°C / 70% RH	100			M Ohms

EMC specifi	cations
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		5.0 10.8 13.5 21.6 43.2		5.5 13.8 18.0 29.0 55.2	V V V V
Temperature coefficient	RH non-condensing		±0.03		%/°C (0-50 °C)
Setup, rise time (at full load)	115VAC 230VAC	50 50		500 500	ms ms
Hold-up time (at full load)	115VAC 230VAC		12 30		ms ms

Example: 60ACDRSS_24S4 60 = 60 Watts; AC = AC-DC; DR = Din Rail; SS = Step shape; 24 = Vout; S = Single Output; 4 = 4kVAC isolation

Protection		
Over load	after fault condition is Constant current limit	tput voltage <50%, recovers automatically
Over voltage	5.75 ~ 6.75V 14.2 ~ 16.2V 18.8 ~ 22.5V 30.0~ 36V 56.5 ~ 64.8V Protection type : Shut do	5V Output 12V Output 15V Output 24V Output 48V Output own o/p voltage, re-power on to recover

Note:

- 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;
- All index testing methods in this datasheet are based on our company corporate standards:
- 3. We can 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";
- Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units.

60ACDRSS 4 Series

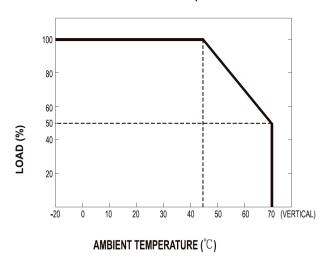
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Product Selection Guide

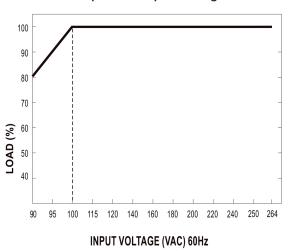
Part Number	Power [W]	Output [Vo, VDC]	Rated Current [A]	Output Voltage Adjustable [Range, V]*	Efficiency at 230VAC [%, typ.]
60ACDRSS_05S4	22.5	5	4.5	5 ~ 5.5	85%
60ACDRSS_12S4	54	12	4.5	10.8 ~ 13.8	88%
60ACDRSS_15S4	60	15	4	13.5 ~ 18	89%
60ACDRSS_24S4	60	24	2.5	21.6 ~ 29	90%
60ACDRSS_48S4	60	48	1.25	43.2 ~ 55.2	91%

Typical characteristics

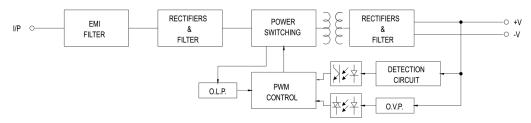
Deduction Curve and Temperature



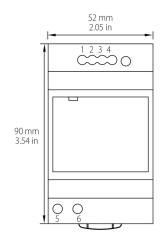
Minus Output and Input Voltage Curves

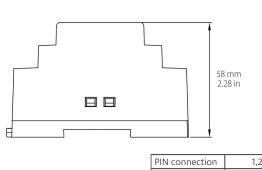


Functional diagram



Mechanical dimensions





PIN connection	1,2	3,4	5	6
	-V	+V	AC/L	AC/N