

FEATURES

- Universal 85 264V AC or 120-370 VDC
- Efficiency up to 91.5%
- Low standby power consumption
- Output voltage adjustment
- DIN rail TS35X7.5/ TS35X15 mountable
- Operating temperature range
 30°C to +70°C
- DC ON output indicator LED
- Output short circuit, over-current, over-voltage protection.
- EMI performance meets.
 CISPR32 / EN55032 CLASS B
- Safety according to IEC/EN/UL62368, EN/IEC60335, IEC61558, UL61010

RS PRO Embedded Switch Mode Power Supplies

RS Stock No: 2358687,2358688



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



AC-DC DIN rail power supply suitable for a wide range of Industrial, Machinery and Instrumentation applications. Featuring a universal AC input this cost-effective, compact design is available in a range of standard outputs. Complying with International and European EMC and safety standards meets IEC/EN61000-4, CISPR32, EN55032, UL/EN/IEC62368, IEC/EN60335, IEC61558, UL61010.

General Specifications

Model	AC-DC 150W power supply	
Mounting Type	DIN Rail mount	
MTBF	MIL-HDBK-217F@25°C > 300,000 h	
Applications	Industrial control systems, instrumentation and machinery equipment	

RS Stock#	Input Voltage	Output Voltage	Output Current	Adj'range (V)	Wattage	Efficiency (Typ)
2358687	85 to 264V ac 120 to 370V dc	12V	11.3A	10.8-13.8V	135W	89%
2358688	85 to 264V ac 120 to 370V dc	24V	6.25A	21.6-29V	150W	91.5%

Input Specifications

Input Specification		
Voltage Range	85 to 264V ac, 120 to 370V dc	
Frequency	47 to 63Hz	
Input current	3A/115V ac, 1.8A/230V ac	
Inrush Current	35A/ 115V ac, 70A / 230V ac	
Leakage	<0.5mA	
Stand-by Power Consumption	0.3W	



Output Specifications

Output Specification				
Output voltage	12V	15V	24V	
Trim range	10.8-13.8V	13.5-18V	21.6-29V	
Rated Current	11.3	15.9A	6.25A	
Ripple & Noise (max.) *	100mV	120mV	150mV	
Rated Power	135.6W	142.5W	150W	
Line Regulation typ.	±1%	±1%	±1%	
Load Regulation typ.	±1%	±1%	±1%	
Max Capacitive load μF	10000μF	8000μF	5000μF	
Minimum Load	0%	0%	0%	

Hold Up Time 115/230Vac	12/30ms		
	12V Output	≤ 16V (Output voltage hiccup)	
Over Voltage Protection	15V Output	≤23 V (Output voltage hiccup)	
	24V Output	≤ 35 V (Output voltage hiccup)	
Short Circuit Protection	Hiccup, continuous, self-recovery		

Note: * The "twisted pair-wire method" is used for ripple and noise test, please refer to AC-DC Converter Application Notes for specific information

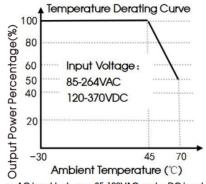
General Specifications

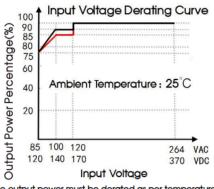




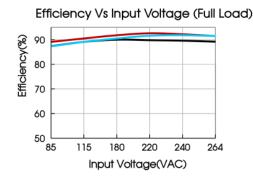
Item		Operating Conditions		Min	Тур	Max.	Unit
Isolation	Input-Output	Electric Strength Test for 1min., (leakage current < 5mA)		4000	-	-	VAC
Operating T	emperature			-30	-	+70	°C
Storage Ter	nperature			-40	-	+85	٠.٢
Storage Hui	midity	Non-condensing		-	-	95	%RH
Power Derating	85VAC-100VAC	12V/15V	1.1	-	-	%/VAC	
		24V	0.784	-	-		
		+45°C to +70°C		2.0	-	-	%/°C
		100VAC - 120VAC	12V	-	-	122.4	
			15V	-	-	128.3	W
			24V	-	-	127.4	
Safety Standard				UL/EN	1/IEC6236	8, EN/IEC	60335,
Sarcty Standard			IEC61558, UL61010		0		
Safety Class	5				CLA	ASS II	
MTBF		MIL-HDBK-217F@25°C			>300	0,000 h	

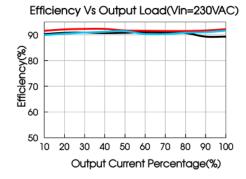
Derating





Note: ① With an AC input between 85-120VAC and a DC input between 120-170VDC, the output power must be derated as per temperature derating curves; ② This product is suitable for applications using natural air cooling; for applications in closed environment please consult factory or one of our FAE.







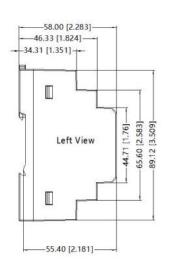
EMC Specifications

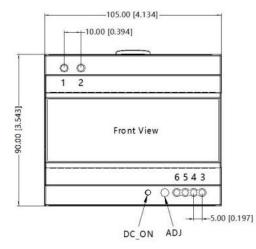
Emissions	CE	CISPR32/EN55032 CLASS B		
	RE	CISPR32/EN55032 CLASS B		
	Harmonic Current	IEC/EN61000-3-2 CLASS A		
	ESD	IEC/EN61000-4-2 Contact ±4KV/ Air ±8KV	Perf. Criteria A	
	RS	IEC/EN61000-4-3 10V/m	Perf. Criteria A	
	EFT	IEC/EN61000-4-4 ±4KV	Perf. Criteria B	
	Surge	IEC/EN61000-4-5 line to line ±2KV	Perf. Criteria A	
Immunity	CS	IEC/EN61000-4-6 10Vr.m.s	Perf. Criteria A	
	Voltage dips, short interruptions and voltage variations immunity	IEC/EN61000-4-11 0%, 70%	Perf. Criteria B	

Mechanical Specifications

Case Material	Plastic, heat-resistant (UL94V-0)	
Dimensions	105.00 x 90.00 x 55.40 mm	
Weight	330g (Typ.)	
Cooling Method	Free air convection	







Pin	Mark
1	AC(L)
2	AC(N)
3	-Vo
4	-Vo
5	+Vo
6	+Vo

Note:
Unit: mm[inch]
ADJ: adjustable resistance to change output voltage
Wire range: 24-12 AWG
Tightening torque: Max 0.4 N·m
Mounting rail: TS35
General tolerances: ±1.00[±0.039]



Approvals

Safety Standards Meet IEC/EN/UL62368, IEC/EN61010-1, IEC/EN61558-1, IEC60335-1	
	EN62368-1 (Report) Safety Approval
Safety Class	Class II

Note:

- 1. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity
- 2. All index testing methods in this datasheet are based on our company corporate standards
- 3. Specifications are subject to change without prior notice
- 4. Products are related to laws and regulations: see "Features" and "EMC"
- 5. Our products shall be classified according to ISO14001 and related environmental laws and regulations and shall be handled by qualified units.