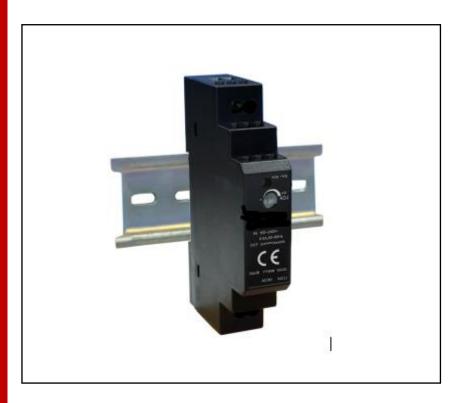


FEATURES

- Universal 85 264V AC or 120-370 VDC
- Slimline design: width 17.5mm
- Efficiency up to 87%
- Low standby power consumption
- Output voltage adjustment
- DIN rail TS35X7.5/ TS35X15 mountable
- Operating temperature range
 40°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, IEC60335-1, IEC/EN61558-1, IEC/EN61010-1

RS PRO Embedded Switch Mode Power Supplies

2358689, 2358690, 2358691, 2358692, 2358693



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, slimline design is available in a range of standard outputs. Complying with International and European EMC and safety standards IEC/EN/UL62368, IEC/EN61000-4, CISPR32/EN55032, IEC/EN61010, IEC/EN61558 and IEC60335

General Specifications

Model	AC-DC 15W power supply		
Mounting Type	NN 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)
2358689	85 to 264V ac 120 to 370V dc	5V	2.4A	4.5-5.5V	12W	80%
2358690	85 to 264V ac 120 to 370V dc	12V	1.25A	10.8-13.8V	15W	85%
2358691	85 to 264V ac 120 to 370V dc	15V	1A	13.5-18V	15W	85.5%
2358692	85 to 264V ac 120 to 370V dc	24V	0.63A	21.6-29V	15.2W	86%
2358693	85 to 264V ac 120 to 370V dc	48V	0.32A	43.2-55.2V	15.4W	87%

Input Specifications

Input Specification		
Voltage Range	85 to 264V ac, 120 to 370V dc	
Frequency	47 to 63Hz	
Input current	0.5A/115V ac, 0.25A/230V ac	
Inrush Current	15A/ 115V ac, 25A / 230V ac	
Leakage	<0.5mA	
Stand-by Power Consumption	0.3W	



Output Specifications

Output Specification					
Output voltage	5V	12V	15V	24V	48V
Trim range	4.5-5.5V	10.8-13.8V	13.5-18V	21.6-29V	43.2-55.2V
Rated Current	2.4A	1.25A	1A	0.63A	0.32A
Ripple & Noise (max.) *	80mV	120mV	120mV	150mV	240mV
Rated Power	12W	15W	15W	15.2W	15.4W
Line Regulation typ.	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation typ.	±1%	±1%	±1%	±1%	±1%
Max Capacitive load μF	2,000μF	1,500μF	1,100μF	700μF	300μF
Minimum Load	0%	0%	0%	0%	0%

Hold Up Time 115/230Vac	12/30ms		
	5V Output	≤6.75V (Output voltage hiccup0	
	12V Output	≤16.2V (Output voltage hiccup)	
Over Voltage Protection	15V Output	≤22.5V (Output voltage hiccup)	
	24V Output	≤36V (Output voltage hiccup)	
	48V Output	≤64.8V (Output voltage hiccup)	
Short Circuit Protection	Hiccup, continuous, self-recovery		

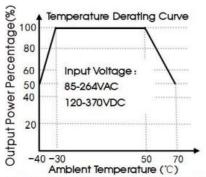
Note: *The "Tip and barrel method" is used for ripple and noise test, using a 12" twisted pair-wire terminated with a 0.1uf ceramic capacitor & 47uf parallel capacitor, please refer to Enclosed Switching Power Supply Application Notes for specific information.

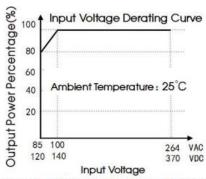


General Specifications

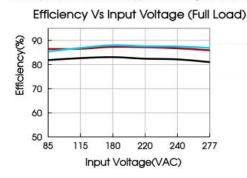
Item		Operating Conditions		Min	Тур	Max.	Unit
Isolation	Input-Output	Electric Strength Test for 1min., (leakage current < 5mA)		4000	-	-	VAC
Operating T	emperature			-40	-	+70	°C
Storage Ter	nperature			-40	-	+85	L L
Storage Hui	midity	Non-condensing		-	-	95	%RH
	Power Derating	Operating temperature derating	-40 to -30°C	5	-	-	07/00
Power Dera			+50 to +70°C	2.5			%/°C
		85VAC-100VAC		1.34	-	-	%/VAC
Safety Stand	dard			Design refer to UL/IEC62368- 1/EN62368-1 IEC/EN61010-1 IEC/EN61558-1 IEC60335-1 EN6236 1 (Report) Safety Approval			
Safety Class	i				CLA	SS II	
MTBF		MIL-HDBK-217F@25°C			>300	,000 h	

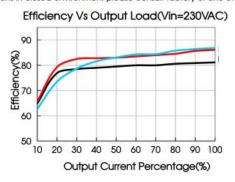
Derating





Note: ① With an AC input between 85-100VAC and a DC input between 120-140VDC, 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.







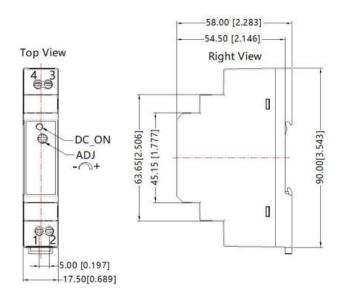
EMC Specifications

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 ±2KV	Perf. Criteria A
	Surge	IEC/EN61000-4-5 line to line ±1KV	Perf. Criteria A
Immunity	CS	IEC/EN61000-4-6 10Vr.m.s	Perf. Criteria A
	Voltage dips, short	IEC/EN61000-4-11 100% dip 1 periods, 30%	Perf. Criteria B
	interruptions and	dip 25 periods, 100% interruptions 250	
	voltage variations	periods	
	immunity		

Mechanical Specifications

Case Material	Plastic, heat-resistant (UL94V-0)	
Dimensions	0.00 x 58.00 x 17.50mm	
Weight	60g (Typ.)	
Cooling Method	Free air convection	





Pin	Mark
1	AC(N)
2	AC(L)
3	-Vo
4	+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, rail needs to

connect safety ground

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.