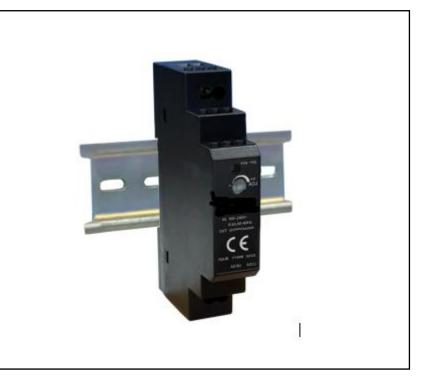


FEATURES

- 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

RS Stock No: 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	DIN Rail mount		
MTBF	MIL-HDBK-217F@25°C > 300,000 h		
Applications	blications 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 Range85 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		

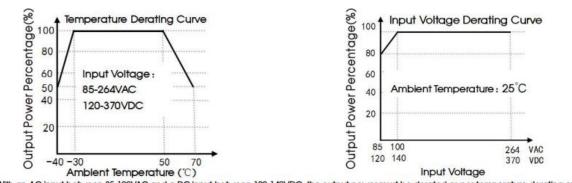
Note: *The "Tip and barrel method" is used for ripple and noise test, using a 12" twisted pair-wire terminated with a 0.1uf ceramic capacitor & 47uf parallel capacitor, please refer to Enclosed Switching Power Supply Application Notes for specific information.



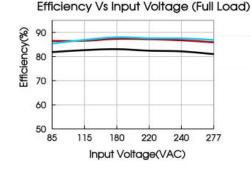
General Specifications

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

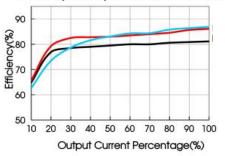
Derating



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.



Efficiency Vs Output Load(Vin=230VAC)



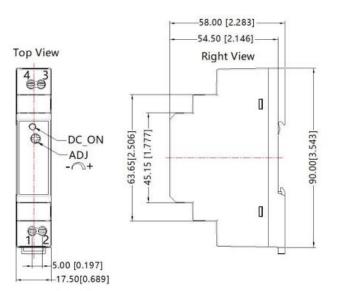


EMC Specifications

Emissions	CE	CISPR32/EN55032 CLASS B					
	RE	CISPR32/EN55032 CLASS B					
Harmonic Current		IEC/EN61000-3-2 CLASS A	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	.00 x 58.00 x 17.50mm	
Weight	60g (Typ.)	
Cooling Method	Free air convection	



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

THIRD ANGLE PROJECTION

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.