

FEATURES

- Universal 90 264V AC Active PFC
- Compact size: 160 x 86 x 43mm
- Efficiency up to 93%
- Stand-by power consumption.
 < 0.5W
- 500/550W
- 5V standby output, 12V fan supply, power good signal
- Operating temperature range
 40°C to +70°C
- Output short circuit, over-current, over-voltage protection.
- Conformally coated
- EMI performance meets.
 CISPR32 / EN55032 CLASS B
- Suitable for BF application

IEC/EN/UL62368-1, IEC/EN60335-1, IEC/EN61558-1, GB4943-1, IEC/EN/ES60601-1 (2 × MOPP)

RS PRO Embedded Switch Mode Power Supplies

- 2367921
- 2367925
- 2367926



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 enclosed power supply suitable for a wide range of Industrial, Medical and Dental applications. Featuring a universal AC input, this cost-effective, high-density design has double or reinforced insulation and is available in a range of standard outputs. Complying with International and European EMC and safety standards IEC/EN/UL62368, GB4943, IEC/EN60335, IEC/EN61558, IEC/EN/ES60601

General Specifications

Model	AC-DC 550W Medical / Industrial power supply	
Mounting Type	assis Mount enclosed	
MTBF	MIL-HDBK-217F@25°C > 200,000 h	
Applications	Industrial control systems, instrumentation and medical equipment	

RS Stock	Input Voltage	Output Voltage	Adj'range (V)	Output Current	Wattage	Efficiency (Typ)
2367921	90 to 264V ac 127 to 370V dc	12V DC	11.4-12.6	41.6A	500W	91%
2367925	90 to 264V ac 127 to 370V dc	24V DC	22.8-25.2	22.9A	550W	93%
2367926	90 to 264V ac 127 to 370V dc	36V DC	34.2-37.8	15.3A	550W	94%

Input Specifications

Input Specification			
Voltage Range	90 to 264V ac, 127 to 370V dc		
Frequency	47 to 63Hz		
Input Current	6.5A/115V ac, 3A/230V ac		
Inrush Current	50A/ 115V ac, 80A / 230V ac		
Leakage	<0.1mA contact leakage, <0.5mA Earth Leakage		
Power Factor	0.98 Full Load		
Standby power consumption	0.5W Room Temperature, 230Vac input (PS-ON Low potential)		



Output Specifications

Output Specification								
	236	7921	236792	5		2367926	5	
Output voltage	1	12V		24V		36V		
Adjustment range	11.4	-12.6V	22.8-25.2V		34.2 - 37.8V			
Rated Current (25CFM)	41	6A	22.9A		15.3A			
Max Capacitive load μF	600)0μF	6000μԲ		6000μF			
Ripple & Noise (max.) *	200r	nVp-p	200mVp	р	200mVpp			
Line Regulation typ.	±0	.5%	±0.5%			±0.5%		
Load Regulation typ.	±	1%	±1%			±1%		
Minimum Load	C)%	0%			0%		
Hold-up Time 25°C, 230VAC input	10)mS	10mS			10mS		
Short Circuit Protection	Recover tim recover)	Recover time <5s after short circuit is removed (Hiccup, continuous, self-recover)						
Over-current Protection	≥105%lo, hiccup, self-recover							
Over Voltage Protection	12V ≤15.6VDC (Output voltage turn off, re-power on for recover) 24V ≤31.2VDC (Output voltage turn off, re-power on for recover)							
	36V ≤46.8VDC (Output voltage turn off, re-power on for recover)							
PS_ON Input Signal*	Power on	_	ON High	2	-	5	V	
	Power off Power on	The PG sig	ON Low anal goes high so 500ms delay ower set up	10	-	500	C	
PG Signal*	Power off/Power fail	least 1ms	nal goes low at before output of rated value	1	-	-	mS	
	High level	ŀ	High	2	-	6	.,	
	Low level	ow level Low		0	-	0.6	V	
Remote Sense*	When RS+ and RS- are connected to the system, with function of remote voltage compensation, if not needed, left RS+ and RS open							
5V Standby*	5Vsb: The load capacity is 1A; tolerance 2%, ripple: 120mVp-p(max.)							
Over-temperature Protection*	Output volt	age turn off,	auto recover afto	er the ter	nperatu	re drops	;	
			1 1					

Note: 1.*Output Voltage Accuracy: including setting error, line regulation, load regulation; 2.*The "Tip and barrel method" is used for ripple and noise test, output parallel 47uF electrolytic capacitor (Low ESR) and 0.1uF ceramic capacitor, please refer to AC-DC Converter Application Notes for specific information; 3.*Over-



temperature Protection: use the discharge pen to release the input electrolytic charge completely, and then test the restart auto recover. 4.*For all the above test items, please refer to our company standard "AC-DC Black Box Test Specification" for specific test specifications and methods; 5.*For fan power connection method, please refer to 5, 6 in the external dimension drawing; 6.*For PS_ON, 5V standby connection method, please refer to CN6 in the external dimension drawing; 7.*For PG standby connection method, please refer to CN2 in the external dimension drawing.

General Specifications

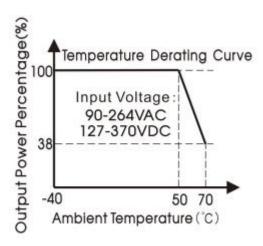
Item		Operating Conditions		Min	Тур	Max	Unit
	Input-output			4000	-	-	
Isolation	Input-Earth	Electric strength test for 1mir <5mA	i., leakage current	2000	-	-	VAC
	Output-Earth	SiliA		1500	-	-	
Insulation	Input-Earth	Environment temperature: 25	5±5°C, Relative	100	-	-	
Resistance	Input-output	humidity: <95%RH, non-cond	ensing Testing	100	-	-	ΜΩ
Resistance	Output-Earth	voltage 500VDC		100	-	-	
Isolation	Input-output			2 × MOPP			
level	Input-Earth			1 × MOPP			
Output-Earth				1 × MOPP			
Operating Temperature				-40	-	+70	°C
Storage Temperature				-40	-	+85	C
Storage Humidity		Non-condensing		10	-	95	%RH
Operating Humidity				20	-	90	
	Operating temperature	LOF550-20B12-CF	+50°C to +70°C	3.1		%/°C	
Power	derating	LOF550-20B24/36-CF	+50°C to +70°C	3.25		,,, ,	
Derating	Input voltage derating	Input voltage derating	90VAC - 115VAC	1.0 %		%/VAC	
Safety Stand	ard	EN/UL62368/EN60601-1 Safety Approval & EN62368-1 (Report)					
Safety Class		CLASS I					
MTBF	MTBF MIL-HDBK-217F@25°C >200,000 h						



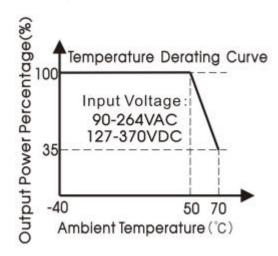


Derating

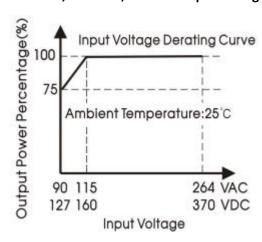
2367921



2367925, 2367926



2367921, 2367925, 2367926 Input Voltage Derating Curve





EMC Specifications

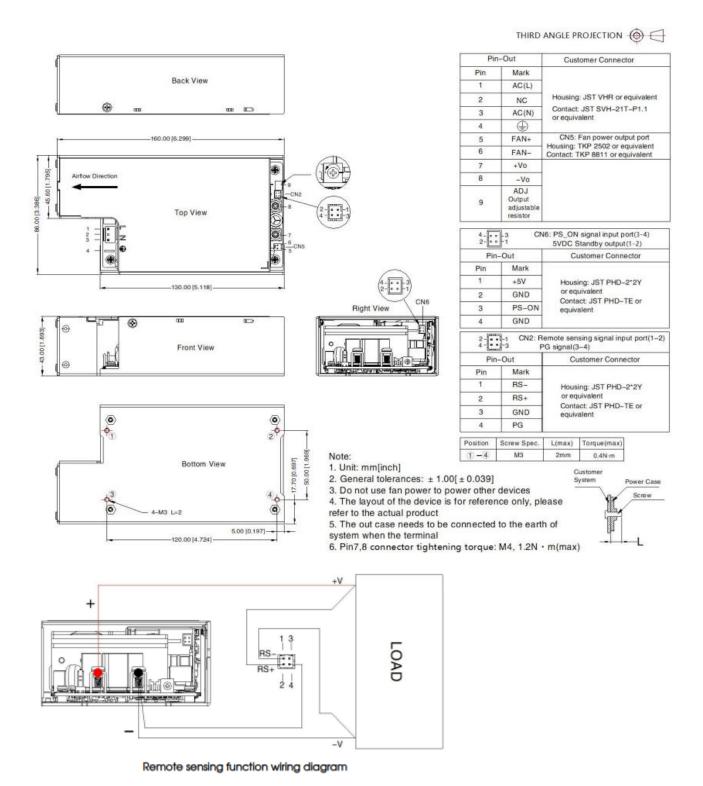
	CE	EN55032(CISPR32)/EN55011(CISPR11) CLASS B				
Emissions	RE	EN55032(CISPR32)/EN55011(CISPR11) CLASS B				
	Harmonic Current	IEC/EN61000-3-2 CLASS A and CLASS D				
	Flicker	IEC/EN61000-3-3				
	ESD	IEC/EN 61000-4-2 Contact ±8KV/Air ±15KV	Perf. Criteria A			
	RS	IEC/EN 61000-4-3 10V/m	Perf. Criteria A			
	EFT	IEC/EN 61000-4-4 ±2KV	Perf. Criteria A			
Immunity	Surge	IEC/EN61000-4-5 line to line ±2KV, line to ground	Perf. Criteria A			
		±4KV				
	CS	IEC/EN61000-4-6 10Vr.m.s	Perf. Criteria A			
	DIP	IEC/EN61000-4-11 0%, 70%	Perf. Criteria B			

Note: *The power supply should be considered as a part of the components in the system. All EMC measurements have been completed on a metal plate (LxWxH, $360 \text{mm} \times 360 \text{mm} \times 1 \text{mm}$). The power supply must be combined with final equipment for EMC confirmation

Mechanical Specifications

Case Material	Metal (AL5052, SUS304)
Dimensions	160 × 86 × 43mm
Weight	645g (Typ.)
Cooling Method	Built in fan





Note:

- RS and RS + cannot be shorted or reversed, otherwise the power module will be damaged;
- The remote compensation function can compensate the voltage drop on the output cable, which includes the sum of the cable drop connected to the output positive terminal and the output negative terminal;
- 3. If you need to use remote compensation function, the signal pin needs to be connected with the load and with a twisted pair, otherwise



Approvals

Safety Standard	EN/UL62368/EN60601-1 Design refer to IEC/CB 62368-1/GB4943/EN60335-1		
Safety Certification	EN/UL62368/EN60601 Safety Approval		
Safety Class	Class I (PE and must be connected)		

Additional Information

Custom Tariff Number	85044030
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Note:

- 1. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity<75%RH with nominal input voltage and rated output load.
- 2. All index testing methods in this datasheet are based on our company corporate standards.
- 3. In order to improve the efficiency at high input voltage, there will be audible noise generated, but it does not affect product performance and reliability.
- 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.
- 6. CAUTION: Double pole, neutral fusing. Disconnect mains before servicing."/" ATTENTION: Double pôle/fusible sur le neutre. Débrancher lalimentation avant lentretien;
- 7. The power supply is considered a component which will be installed into a terminal.