

EN54-4 +A1 +A2 Certified Power Supply Units Compliant with Fire Detection and Alarm systems

HAY-PSUEN54-1A

HAY-PSUEN54-2A

HAY-PSUEN54-5A

HAY-PSUEN54-2AL

HAY-PSUEN54-5AL

- Compliant to EN54-4:1997, A1:2002 & A2:2006
- Input Voltage – 110-240V AC
- 27.6VDC uninterruptible power supply for compliant Fire Systems
- 1A / 2A / 5A versions available in small metal enclosures for 7Ah batteries
- 2A / 5A versions available in large metal enclosures for 18Ah batteries
- Overload protection circuit to avoid damage to the PCB during short circuit or overload
- Deep discharge protection will disconnect batteries to avoid battery damage if draining too low (Below 21VDC)
- Battery Monitoring checks status of batteries (low voltage, incorrect connection, short circuit and temperature)
- Voltage free outputs: EPS (Mains fail), GEN (Battery low/battery fuse blown)

27.6VDC Power Supply Series

Specifications

		HAY-PSUEN54-1A	HAY-PSUEN54-2A	HAY-PSUEN54-5A	HAY-PSUEN54-2AL	HAY-PSUEN54-5AL
Mains Input	Rated Voltage/Frequency	110~240V AC ,47~63Hz				
	Input Current	0.3A	0.5A	1.2A	0.5A	1.2A
	Fuse Ratings	F3A				
Low Voltage Output	Voltage (Mains Power)	22.0 ~ 27.6 Vdc				
	Voltage (Battery Standby)	20.0 ~ 26.0Vdc				
	Ripple	<100 mV	<150 mV	<150 mV	<180 mV	<180mV
	Output Fuse	F1A	F2A	F5A	F2A	F5A
	Battery Fuse	F1A	F2A	F5A	F2A	F5A
	I _{max} A (With Charging)	1A	2A	5A	2A	5A
	I _{max} B (No Charging)	1.5A	2.8A	5.8A	2.8A	5.8A
	Battery Capacity	2 x 7Ah			2 x 18Ah	
	R _i max	The maximum internal resistance of the battery and its associated circuitry is 5Ω				
	I min	0.1 Amp				
	Battery Charging	Two stage charging: Constant current bulk charging to 80% capacity within 24 hours. Float charging to 100% within 48 hours				
	Constant Current Charge	0.5A	0.8A			
	Temperature Compensation	Coefficient for charging voltage: -30mV/ °C (0~50 °C)				
	Low Battery Voltage Trigger	Threshold voltage – 23V				
	Deep Discharge Protection Cut Out	Threshold voltage – 21V				
Terminal connections	L 	Mains Input				
	+OP -	Voltage output to load				
	+ BATT -	Connection to batteries using leads (supplied)				
	TEMP	Connection to battery temperature sensor (supplied)				
	GEN	GEN Fault output normally closed; 0.50 A @ 60Vdc 0.9Ω solid state relay contacts, volt free; Open if Mains failed and battery voltage < 23V or fault PSU fault condition (see below)				
	EPS	EPS Fault output normally closed; 0.50 A @ 60V dc 0.9Ω solid state relay contacts, volt free; Open if loss of mains for > 10 seconds				
Environmental	Operating Temperature	- 20 to +45°C (operating), 20%~90% RH non-condensing				
Conditions	Storage Temperature	-25 to +85°C (storage),10%~90% RH non-condensing				
Enclosure	Material	1.2 mm steel white powder coated				
	Enclosure Dimensions w*h*d (mm)	275 x 330 x 80			420 x 400 x 80	
	Weight excluding batteries (KG)	3.1	3.1	3.3	5	5.2

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