

SIE SERIES

40 - 138 Watt

AC/DC Linear Power System for security (with enclosure)



Proven Solution for battery back-up Applications
Isolated dual outputs (Load / Charge)
Security box enclosure, with key lock
Room for up to 4 x 7 Ah batteries
Battery charge current limited
Self mounting to panel / wall
Safety to IEC950 (EN60950), AS/NZS 3260:1993
Alarms including: Battery low, Power OK, Tamper, Battery Reverse Polarity

Security enclosure has 'knockout' holes for top or bottom cable entry.

Power Fail alarm and Battery Low alarm, with changeover 24V / 1A relay contacts.

Available in 12V and 24V configurations.

◆ 24 Month Warranty

SPECIFICATIONS All specifications are typical at nominal input, full load and at 25°C unless otherwise stated.

ELECTRICAL	
AC Input	230 / 240 VAC ± 5% 50Hz or 110 / 120 VAC ± 5% 60Hz
Frequency	50 Hz ± 5%
Fusing / Protection	Internal 5x20mm glass fuse, or thermal fuse in transformer
Isolation	3.5KV AC 1 min. input - output 1.5KV AC, 1 min. input - output - earth
Output Power	(Refer model table)
Output Voltages	12V, 24V DC Battery: Factory default setting 13.8V, 27.6V @ 20°C
Current Limit	Fully short circuit protected, load current limits at 100% rated load, charge current limits at 20% unit rating
Line Regulation	< 0.2% over input range
Load Regulation	< 0.5% open circuit to full load
Ripple	< 0.2% Pk-Pk, 0.05% RMS
Hold-up time	20ms

NO-BREAK™ FEATURES AND ALARMS	
Current limit	Factory default setting: 9A (13.8V), 6A (27.6V), 5.0A (41.4V), 4.0 A (55.2V), 2.5A (140.4V)
(Adjustment Range)	N/A
Reverse Polarity	Battery reverse connection will open internal fuse (and produce alarm)
Tamper	Tamper switch activates when enclosure door opened
POWER OK Alarm	C - NO - NC full changeover rated 1A / 24V DC).
BATTERY SYS OK Alarm	C - NO - NC full changeover rated 1A / 24V DC) Factory default: 1.83V / cell = 11, 22V (for 12 & 24V systems) Additionally detects internal battery fuse open

PHYSICAL	
Connections - AC / DC / Alarm	Screw / clamp terminal block AC / DC: 2.5mm ² , Alarm: 2.5mm ²
Fabrication	Mild steel vented enclosure. White powder-coated finish. Lockable hinged door for access to all terminations and battery.
Indicators	AC on, PCB mounted neon lamp
Weight	3.6 - 7.5Kg (refer model table)
Mounting	Wall mount via keyholes in rear of enclosure

STANDARDS	
EMC radiated noise	To EN55022-A
EMC conducted noise	To EN55022-A
Safety	To IEC950 (EN60950), AS/NZS3260:1993

ENVIRONMENTAL	
Operating temperature	0°C to 50°C, max. 60°C at 50% load
Storage temperature	-10 to 70 °C ambient
Humidity	0 - 95% relative humidity non-condensing

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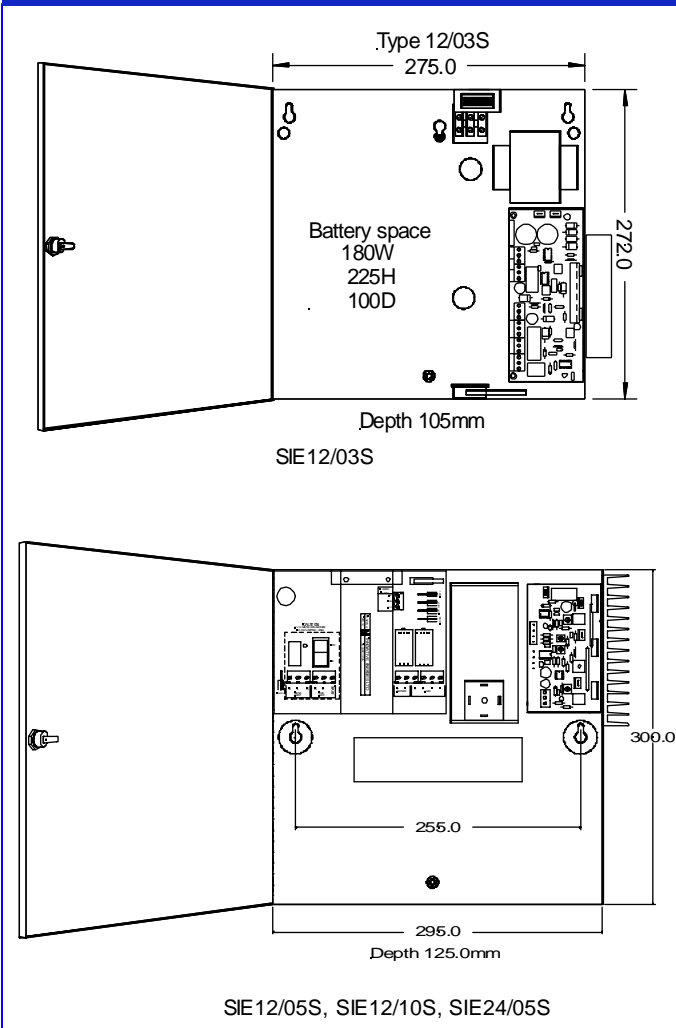
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STANDARD MODEL TABLE (Module and Enclosure)

MODELS	Output Voltage (factory default)	Output Current (load)	Output Current (charge)	Weight (Kg)	Enclosure (mm)
SIE12/03S	13.8V	2.0A	1.0A	3.9	275x272x105
SIE12/05S	13.8V	3.8A	1.2A	5.4	295x300x125
SIE12/10S	13.8V	8.0A	2.0A	7.5	295x300x125
SIE24/05S	27.6V	3.8A	1.2A	7.5	295x300x125

MOUNTING DETAILS / DIMENSIONS



ACCESSORIES / BATTERY ACCOMMODATION

Accessories Supplied	Battery leads with faston connector
Battery Compartment Capacity	SIE12/03S : 2 * 12V 7Ah SIE12/05S, SIE12/10S, SIE25/05S: 4*12V 7Ah

ADDITIONAL OPTIONS

Rack Mount	Optional 19" x 3RU enclosures
110V Option	110 / 120 VAC \pm 5% 60Hz specify on ordering

- ◆ Load takes priority over battery charge output
- ◆ Battery cannot overload system
- ◆ Battery charge circuit fixed voltage / accurately current limited
- ◆ Battery output protected from overload, reverse polarity by fuse
- ◆ Battery supplies load only during power outages

SYSTEM BLOCK DIAGRAM

