



- High performance DC UPS system
- *No-Break* switching between charger & battery
- Battery detection - regular battery presence and battery circuit integrity checks
- Alarm relay outputs
- LED flash codes for precise state indication
- Deep discharge protection for batteries
- ECB for battery overload & short circuit protection
- Fused reverse battery polarity protection
- Automatic temperature compensated output volts
- Option - battery condition test (BCT)
- Option - communication interface allows remote monitoring & user control of BCT function - *i* versions
- Batteries external to charger - order separately

◆ 24 Month Warranty



Z367

SPECIFICATIONS All specifications are typical at nominal input, full load and at 20°C unless otherwise stated.

ELECTRICAL		No-Break™ FUNCTIONS AND ALARMS	
Input voltage	180 - 264V, 50/60 Hz (standard) or 88 - 132VAC (internal link selectable)	Reverse polarity protection	Battery reverse connection will open internal fuse (and produce alarm)
Fusing / protection	5A input fuse and varistor Battery fuse plus ECB for battery circuit	Battery monitoring	Detects for presence of battery on start up, then every 60 minutes when charge current < 200mA
Isolation	1KV DC input - output / earth	Battery protection	Electronic circuit breaker (ECB) operates under the following conditions:
Efficiency	≥ 85%	- low battery volts	• battery voltage drops to 1.67V/cell - auto reset
Inrush current	Soft start circuit	- overload	• < 300ms for load > 6 x rated PSU current, allows ~1.5x rated PSU current from battery without acting,
Output power	250W	- short circuit	• < 2ms, backed up by fuse
Output voltage	13.8, 27.6, 34.5, 41.4, 55.2VDC	Indication LEDs	Green: Battery System OK, Power OK Red: Standby
Voltage adj. range	85 - 105% of Vout	Alarms	• Power OK (alarm on mains fail) • Battery System OK - alarms when battery voltage low (on mains fail), battery missing, battery circuit wiring faulty, BCT fail (if enabled)
Temp. compensation	Temperature sensor on 1.7m lead with adhesive pad: -4mV / °C / cell ±10%	Alarm relay contacts	C - NO - NC full changeover rated 1A /50V DC, 32VAC
Current limit	PSU: 100% rated current Battery: 25-100% rated current (factory set)	Standby mode	Turns off DC output of PSU & allows load to run off battery
Line regulation	<0.2% over AC input range	Battery condition test (BCT)	Optional - if enabled, default setting = 20mins/28days). BCT can be started and stopped by the user on SR250 <i>i</i> . BCT relay provided to control an external test load.
Load regulation	<0.4% open circuit to 100% load	ENVIRONMENTAL	
Noise	<1% output voltage	Operating temperature	-20 to 50 °C ambient at full load De-rate linearly at >50 °C to zero @ 70 °C
Drift	0.03% / °C	Storage temperature	-30 to 85 °C ambient
Hold-up time	20 ms without battery (nominal - max. Vin)	Humidity	0 - 95% relative humidity non-condensing
Turn on time	< 1 sec	Cooling	Natural convection except for 12V model (fan)
Thermal protection	Yes, self-resetting	Protection	IP20
Overvoltage protection	Over-voltage protection on output at ~ 130% of nominal output voltage		
EMI	CISPR 22 / EN55022 class A		
Safety	IEC950 / EN60950 / AS/NZS3260		
Vibration	Designed to meet MIL-STD-810F Method 514.5		

250 Watt No-Break™ DC charger for lead acid batteries

SR250C

incl. SR250i

MODEL TABLE (ratings apply to all variants)

MODEL	DC Output				
	Output (V)	PSU Rated (A)	Charge Limit (A) *1	Recomm. Av. Load (A)	Peak load on mains fail (A)
SR250C12	13.8	18.0	18.0	12.0	27
SR250C24	27.6	9.0	9.0	5.0	13.5
SR250C30	34.5	7.2	7.2	3.7	10.8
SR250C36	41.4	6.0	6.0	3.0	9
SR250C48	55.2	4.5	4.5	2.0	6.7

*1 This is the default setting. Please specify if a lower limit is required at time of order



SR250i (please refer to separate data sheet on comms options)

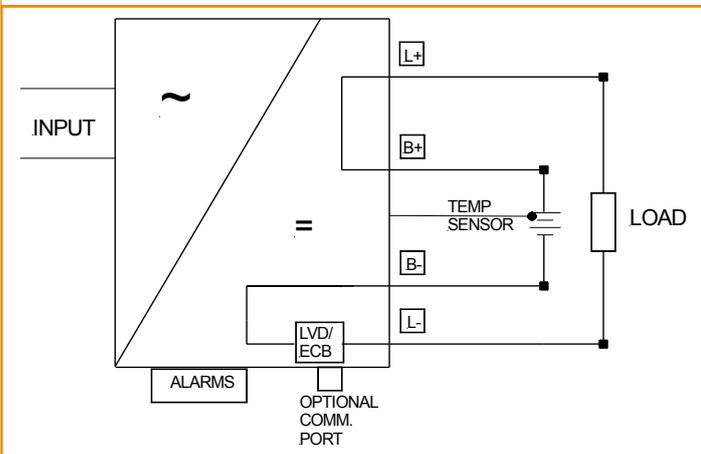
PHYSICAL DETAILS

AC input connector	IEC320 input socket (included)
DC output connections	M6 brass stud or plug-in style socket & mating screw terminal block:
Alarm connections	Plug in screw terminal block
Enclosure	Powder coated & zinc plated steel
Weight	1.7kg
Dimensions	150W x 242D x 61H mm (excluding mounting feet and connections)

OPTIONS

Communications Port (SR250i...)	<ul style="list-style-type: none"> Ethernet / SNMP v1 RS485 / Modbus using external converter: <ul style="list-style-type: none"> * +PROTOCONMB - Modbus serial * +PROTOCONMB-OE - Modbus TCP & HTTP RS232 / IE ASCII code
Digital V/I meter	May be fitted with SR250 in 19" rack, add: SR-METER or SR-METERV2/SHUNT
19" rack mount	Single charger add: SR-RM2U Dual charger (front removable) add: SR-RM2U-DUALV2
Wall Mount Enclosure	Charger may be fitted into enclosure with MCBs and terminals. Code: SEC-SR

SCHEMATIC BLOCK DIAGRAM



2 x SR250C/i chargers (front removable) in 2U rack

MODEL IDENTIFICATION CODES

SR250C12 T F S L- 485

Optional Communications Interface Port

For SR250i versions:
485 = RS485 **232** = RS232 **LAN** = Ethernet (ASCII)
LAN+ = Ethernet (SNMP)

Input voltage and front Panel standby switch	L = 230V AC + switch	Blank = 230V AC no switch
	U = 110V AC + switch	G = 110V AC no switch
	H = 110V DC + switch	J = 110V DC no switch
	M = 230V AC + switch + 300V MOV (to be used with IEOVPHVAC)	
Output DC Connector type:	S = Stud	X = Plug in /screw terminal block
Fan cooled:	F = Fan	Blank = No fan
Temperature Compensation	T = Yes	Blank = No
DC output (nominal battery)	12, 24, 30, 36, 48V	
Function	C = No-Break™ DC PSU/charger	
Power	i = C with serial or ethernet communications port	
	250W	