





> Ratings		
24 V DC	6 A (50 A at peak)	12 A (50 A at peak)
48 V DC*		
The currents I _n shown are at rated output power.		
*The Lithium model is only available in 48 V DC.		
> Standard -based specifications		
Safety	EN 62368-1	
EMC - Immunity	EN 61000-6-2	
EMC - Emission	EN 61000-6-4 • EN 61000-3-2 • EN 55032 • EN 55024	
Trade	NFC 13-100 compliant	
Environment	This product range meets the environmental requirements of ISO 14001, RoHS and WEEE standards.    	
> Environmental specifications		
Humidity	during storage: relative humidity of 10% to 95% non-condensing in operation: relative humidity of 20% to 95% non-condensing	
Storage temperature	-25°C to +85°C	
Operating temperature	75% of load	-5°C to +50°C
	100% of load	-5°C to +40°C
Altitude	Above 2,000 m, the maximum temperature is lowered by 5% every 1,000 m	
Service life	200,000 h at 25°C external ambient temperature	
> Input characteristics		
Voltage	98 to 265 V AC	
Frequency	47 to 65 Hz	
Neutral system	TT - TN - IT	
Inrush current	limited by NTC	
Upstream circuit breaker required	D Curve	
Class	Class 1	
	Charger 300 W	Charger 600 W
Mains consumption @ 98 V	4 A	8 A
Mains consumption @ 265 V	2 A	4 A
> Efficiency		
At 20% load	84%	
At nominal load	90%	
> Output characteristics		
Nominal voltage	24 V DC	48 V DC
Floating voltage (U _n) adjusted to half load and 25°C	27.2 V +/-0.5%	54.4 V +/-0.5%
Charger current limitation	I _n : 6 A to 12 A depending on model	
> Charger consumption on battery in stand-alone mode		
	24 V DC	48 V DC
300 W	94 mA	37 mA
600 W	106 mA	73 mA

> For reliable output voltage

Protection from external aggressions	<ul style="list-style-type: none"> - Resistance to all types of external aggression: <ul style="list-style-type: none"> • Overvoltages encountered in the mains grid (lightning, industrial, isolation fault on impedant neutral, etc.) • Short-circuit on primary by slow-blow timed fuse on phase. • Differential mode shock waves by varistor and fuse. • Battery polarity reversals. • Overvoltages on secondary. • Overcurrents and short circuits on secondary. • Short circuits inside the product by primary fuse. • Rises in external temperatures (outside specified range).
Charger current limitation management	<ul style="list-style-type: none"> - The output current limitation can start a charging cycle on a discharged battery. • Protects the product completely from short-circuits on the installation. • Protection selectivity is provided by fuses on each load output and the battery circuit.
Control and high-performance filtering	<ul style="list-style-type: none"> - Particularly efficient output voltage regulation <ul style="list-style-type: none"> • Static control < 0.5% of U_n. • Dynamic control < 5% of U_n for cumulative variations of the mains and the load (10% to 90%). - Boosted filtering that eliminates all interference and reduces the ripple on the DC output voltage. Battery capacity preserved and guaranteed optimum operation of systems. <ul style="list-style-type: none"> • LF rms ripple < 0.5% of U_n. • HF ripple (20 MHz-50 Ω) < 4% of U_n.

> For the control and management of the emergency power source

LED Test function	The two LED light up for one second when the power is switched on.
System control	<ul style="list-style-type: none"> - Monitoring: <ul style="list-style-type: none"> • State of mains, battery and load fuses. • Presence or absence of battery. • Temperature inside the cabinet. • Battery voltage. • Operating status. • Presence of mains voltage in the correct operating range.
Battery charge management	<ul style="list-style-type: none"> - This function is essential to achieve the theoretical service life and guarantee optimum battery operation. <ul style="list-style-type: none"> • The charge voltages are factory set. • They comply with the stipulations of the battery manufacturers. • The charger incorporates battery charge current limitation.
Battery safeguard	<ul style="list-style-type: none"> - Charger disconnects automatically at the end of battery discharge to preserve battery life. Prevents batteries from becoming too discharged, which would cause irreparable deterioration in performances (cut-off threshold 1.8 V/element at +/-0.5%).
Battery Circuit Test function	Every thirty seconds for the first twenty minutes, then every fifteen minutes.
Battery Health Test function	Impedance test performed every sixteen hours (internal resistance measurement).
Temperature compensation	-3 mV/element/°C (on lead battery models only)
Restart (C13-100)	By local or remote manual action. After a configurable back-up time, the load will be disconnected from the battery. The restart button blinks and indicates a restart stand-by. "Restart?", "Restart in progress" or "Restart impossible" is displayed.
Cold start	Start up without the mains present, only using the battery
Configurable back-up time	Via LCD screen (30 min, 1 h, 2 h, 4 h).
Wind turbine function	Delays the remote restart. The execution of the order can be delayed from 1 to 30 s, configurable via the LCD screen.

> For optimum communication**- Green/red/orange tricolour LED for display and status control**

	Steady green	Blinking green	Blinking orange	Steady orange	Steady red	Off
Battery LED	Battery charged	Battery being charged	<ul style="list-style-type: none"> - Low battery - Battery flat - Battery needs to be charged 	Battery operation	Battery test fault	Battery disconnected in restart stand-by
User LED	Load powered	-	-	10 mm ²	<ul style="list-style-type: none"> - Charger fault - Fuse fault 	Load disconnected
Restart button LED	-	-	Restart on stand-by	1.5 mm ²	-	-

> For optimum communication

- Digital display

Display and remote reporting of information

The product displays the standard menu constantly. The standard menu display is incremented every ten seconds to indicate the next item of information and runs on a loop. Pressing and holding (1 s) is used to access the configuration menu. Pressing and holding again once in the configuration menu gives access to one of the proposed sub-menus.

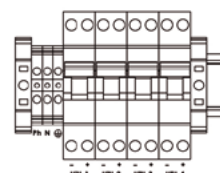
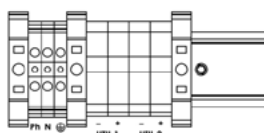
Press and hold to select a variable in one of the sub-menus. When selected, variable has an * next to it.

Two menus:

- The Standard Menu displays the information regarding
 - the battery voltage and current,
 - the output voltage and current
 - the mains, charger, battery or fuse fault
 - the remaining autonomy (lead model)
 - the end-of-life and replacement of the battery
- The Configuration Menu allows to select
 - the language (Lead model: French/English/German; Lithium model: French/English)
 - the duration of the autonomy (Lead model: 0.5h/1h/2h/4h/8h/12h/no limit; Lithium model: 0.5h/1h/2h/4h)
 - the restart delay (0 to 30s)
 - the battery type (lead model)
 - to do a battery test (lithium model)

- Positive safety dry contacts

Alarm reporting



Name	Terminals	Status	Fault conditions
General fault	1-2	Open in the event of a fault	Charger or mains or battery or impedance fault
Mains present	3-4	Open in the event of a fault	No mains power
Battery flat alarm	5-6	Open in the event of a fault	Battery voltage < 1.85 V per cell

> Connection specifications

Screw-type terminal block

Mains	max. 4 mm ²
Batteries	Cabling supplied
Load (two outputs)	max 10 mm ²
Alarm reporting	max 2.5 mm ²

> Cabinet characteristics

	Cabinet dimensions W x H x D (mm)	Weight (kg)	IP	Cabinet	Type
C85 Lead	408 x 408 x 224	16 - 50	IP31	Metal RAL 7035	Wall or floor-mounted
C85 Lithium		27			

> Cabinet incorporating batteries

	24 V	48 V
C85 Lead	7 Ah, 14 Ah, 24 Ah	
C85 Lithium	-	26 Ah

SLAT reserves the right to alter the characteristics of its products without prior notice.