## DATASHEET SANTE

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> Ratings								
	75 W	100 W	150 W	200 W	300 W	400 W	600 W	
24 V DC	3 A	4 A	6 A	8 A	12 A	16 A	24 A	
The currents $(I_n)$ shown are at ratedo	utput power							
> Standarts-based specifications								
Safety	EN 60950-1 SE	LV class						
EMC - Immunity	EN 61000-6-1	EN 61000-6-1 2 EN 61000-6-2						
EMC - Emission	EN 61000-3-2	EN 61000-3-2 ② EN 61000-6-3 ② EN 61000-6-4 ② EN 55022 B class						
Specific	EN 61046	EN 61046						
Environment	This product range is environmental policy ISO 14001, RoHS et WEEE.  RoHS 2011/65/UE							
> Environmental specifications		,						
Humidity			-	•	to 95% (non-conde % to 95% (non-cond			
Storage temperature	-25°C à +85°C							
	Power		75 W - 100 W			150 W - 600 W		
Operating temperature	75% of load		-5°C to +50°C			-5°C to +50°C		
	100% of load		-5°C t	-5°C to +50°C		-5°C to +40°C		
Altitude	Above 2,000 m, the temperature decreases by 5% every 1,000 m							
Working life	50,000 h at 25°C (external environment) and 75% of load, product installed in a cabinet							
> Input specifications								
Voltages		230 V AC +/- 15% single-phase						
Frequency				45 to 65H	łz			
Neutral system		TT - TN - IT						
Switch-on current				limited by 0	CTN			
Upstream circuit breaker required	Bipolar D Curve							
Class	I Class							
	75 W	100 W	150 W	200 W	300 W	400 W	600 W	
Primary current @ 195 V	0.5 A	0.75 A	1 A	1.5 A	2 A	3 A	4 A	
Converter	75 N	N	100 W - 150	W	200 W - 300 W	400 V	W - 600 W	
At 20% load	71%		75%		84%		85%	
At rated load	85%		84% 90		90%	0% 91%		
> Output specifications								
Rated voltage				24 V DC				
Floating voltage (V <sub>n</sub> ) set at half-load and 25°C (V)	27.2 V +/-0.5%							
Short-circuit current limitation	I <sub>n</sub>							





> For reliable output volt	age			
Protection against external aggressions	<ul> <li>- Resistance to all types of external aggressions:</li> <li>• Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system.)</li> <li>② Short-circuit on the primary power supply by a slow blow fuse on the phase.</li> <li>• Differential mode shock waves by varistor and fuse.</li> <li>• Battery polarity inversions.</li> <li>② Overvoltages on secondary.</li> <li>② Overcurrents and short-circuits on secondary.</li> <li>③ The short-circuits inside the product, protected by primary fuse.</li> <li>• Increases in external temperatures (outside the specified range).</li> </ul>			
Charger current limitation	<ul> <li>Output current limitation allows a charge cycle to be started with a dead battery.</li> <li>Completely protects the product from short-circuits on the installation.</li> <li>Protection selectivity is ensured by fuses on each load output and the battery fuse.</li> </ul>			
High performance filtering and regulation	<ul> <li>Particularly efficient output voltage regulation</li> <li>Static regulation &lt; 0.5% of U<sub>n</sub>.</li> <li>Dynamic regulation &lt; 5% of U<sub>n</sub> for cumulative variations of the mains and the load (from 10% to 90%).</li> <li>Enhanced filtering that eliminates all parasites and reduces the ripple on the V DC output.</li> <li>Battery capacity preserved and the guarantee of optimum system operation.</li> <li>LF rms ripple &lt; 0.2% of U<sub>n</sub></li> <li>HF ripple (20 MHz-50 Ω) &lt; 4% of U<sub>n</sub>.</li> <li>Note: The SANTE range can operate without battery and may be used as a direct power supply.</li> </ul>			
> For the control of the e	mergency power source			
System control	<ul> <li>- Monitoring of:</li> <li>• The status of mains, battery and load fuses.</li> <li>• Battery presence or absence.</li> <li>② The temperature inside the cabinet (200 W to 600 W).</li> <li>• Battery voltage and its operating status.</li> <li>• Mains voltage present in the correct operating range.</li> </ul>			
Battery charge management	<ul> <li>This function is essential for reaching the design life and to ensure optimum operation of the battery.</li> <li>The charge voltages are factory set for «sealed» recombination-type lead acid batteries.</li> <li>They are consistent with the battery manufacturers' recommendations.</li> <li>The charger features battery charge current limitation.</li> <li>The supply of power to the load takes priority over the battery charge.</li> </ul>			
- Automatic disconnection of the charge at end of discharge to preserve its future capacity.  • Prevents excessively deep discharge that can permanently downgrade performance, cut-off threshold 1.8 V/cell. (+/- 0.5%).  • A report is sent before disconnection. Pre-cut-off alarm threshold 1.85 V/cell.(+/- 0.5%).  During autonomous operation, up to the cut-off threshold, the design of the SLAT unit significantly limits the charger's own consumption on the battery. This allows your application to take full advantage of the battery's capacity.				
> Charger consumption o	n the battery in autonomous mo	ode		
	75 W	100 W - 150 W	200 W - 300 W	400 W - 600 W
24 V DC	108 mA	75 mA	44 mA	106 mA





#### > For optimal communication



#### - Mains:

Presence indicated by a green LED. Remote reporting by dry contact with delay (failsafe).

#### - Charger:

Correct operation indicated by a green LED.

Charger fault if mains fuse is out of order or not present, or if product is out of order. Remote reporting by dry contact with delay (failsafe).

#### - Battery:

Presence indicated by a green LED.

# Displaying and remote reporting of the information

#### - Battery fault:

If battery is not present (test every 30 seconds for the 1st 20 minutes after the installation, then every 15 min) or if battery voltage < 1.85 V/cell in autonomous mode.

Voltage of less than 1.85 V/element indicated by flashing orange LED (autonomous mode).

Remote reporting by dry contact with delay (failsafe).

#### - Internal signaling on the motherboard

A LED on the motherboard indicates operational status before the cabinet is closed (display board not connected).

On motherboard

Signals:

2 All OK: green

Mains fault: orange

• Battery or charger fault, or load not present: red (this fault takes priority over a mains fault).

#### > Connection specifications

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Screw terminal	75 W	100 W - 150 W	200 W - 300 W	400 W - 600 W
Mains	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Batteries	2.5 mm <sup>2</sup>	6 mm²	6 mm²	10 mm²
Load (2 outputs)	4 x 2.5 mm²	1 x 6mm <sup>2</sup> 3 x 2.5 mm <sup>2</sup>	1 x 6mm <sup>2</sup> 3 x 2.5 mm <sup>2</sup>	1 x 10mm <sup>2</sup> 5 x 2.5 mm <sup>2</sup>
Alarm reports*	1.5 mm²	1.5 mm²	1.5 mm <sup>2</sup>	1.5 mm²

<sup>\*</sup>the alarm report connector is unpluggable - Dry contacts, 1 A @ 24 V DC, 0.5 @ 120 V AC.

#### > Cabinet characteristics

Version	Size W x H x D (mm)	IP	Socle	Cover
C24	322 x 248 x 126	IP30	Metal, RAL 9006	ABS RAL 9003
C48	425 x 345 x 120	IP30	Metal, RAL 9006	ABS RAL 9003
C180	505 x 610 x 430	IP31	Metal, RAL 7035	Metal, RAL 7035

### > Types of battery cabinets

Version	Туре	24 V
C24	Wall-mounted	7 Ah, 12 Ah
C48	Wall-mounted	7 Ah, 12 Ah, 24 Ah (4 x 12 Ah)
C180	Floor-mounted	65 Ah, 80 Ah, 120 Ah, 130 Ah, 170 Ah

#### > Product references

Available on www.slat.com

SLAT can change specifications on his products without prior notice.

