





<b>&gt; Ratings</b>							
	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 rated output power							
<b>&gt; Standards-based specifications</b>							
Safety	EN 62368-1						
EMC - Immunity	EN 61000-6-1 • EN 61000-6-2						
EMC - Emission	EN 61000-3-2 • EN 61000-6-3 • EN 61000-6-4 • EN 55032 class B						
Specific	EN 61046						
Environment	This product range is environmental policy ISO 14001, RoHS et WEEE.    						
<b>&gt; Environmental specifications</b>							
Humidity	<b>During storage:</b> relative humidity 10% to 95% (non-condensing) <b>In operation:</b> relative humidity 20% to 95% (non-condensing)						
Storage temperature	-25°C à +85°C						
Operating temperature	Power	75 W - 100 W			150 W - 600 W		
	75% of load	-5°C to +50°C			-5°C to +50°C		
	100% of load	-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						
<b>&gt; Input specifications</b>							
Voltages	198 to 264 V AC single-phase						
Frequency	45 to 65 Hz						
Neutral system	TT - TN - IT						
Switch-on current	limited by 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 @ 198 V	0.5 A	0.75 A	1 A	1.5 A	2 A	3 A	4 A
Converter	75 W		100 W - 150 W		200 W - 300 W		400 W - 600 W
At 20% load	71%		75%		84%		85%
At rated load	85%		84%		90%		91%
<b>&gt; Output specifications</b>							
Rated voltage	24 V DC						
Floating voltage ( $U_n$ ) set at half-load and 25°C	27.2 V +/-0.5%						
Short-circuit current limitation	$I_n$						

> For reliable output voltage				
Protection against external aggressions	<p><b>- Resistance to all types of external aggressions:</b></p> <ul style="list-style-type: none"> <li>• Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system...).</li> <li>• 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>• Overvoltages on secondary.</li> <li>• Overcurrents and short-circuits on secondary.</li> <li>• 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	<p><b>- Output current limitation allows a charge cycle to be started with a discharged battery.</b></p> <ul style="list-style-type: none"> <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	<p><b>- Particularly efficient output voltage regulation</b></p> <ul style="list-style-type: none"> <li>• Static regulation &lt; 0.5% of <math>U_n</math>.</li> <li>• Dynamic regulation &lt; 5% of <math>U_n</math> for cumulative variations of the mains and the load (from 10% to 90%).</li> </ul> <p><b>- Enhanced filtering</b> that eliminates all parasites and reduces the ripple on the V DC output. Battery capacity preserved and the guarantee of optimum system operation.</p> <ul style="list-style-type: none"> <li>• LF rms ripple &lt; 0.2% of <math>U_n</math></li> <li>• HF ripple (20 MHz-50 Ω) &lt; 4% of <math>U_n</math>.</li> </ul> <p><i>Note: The SANTE range can operate without battery and may be used as a direct power supply.</i></p>			
> For the control of the emergency power source				
System control	<p><b>- Monitoring of:</b></p> <ul style="list-style-type: none"> <li>• The status of mains, battery and load fuses.</li> <li>• Battery presence or absence.</li> <li>• Battery voltage and its operating status.</li> <li>• Mains voltage present in the correct operating range.</li> </ul>			
Battery charge management	<p><b>- This function is essential for reaching the design life and to ensure optimum operation of the battery.</b></p> <ul style="list-style-type: none"> <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>			
Battery backup	<p><b>- Automatic disconnection of the charge at end of discharge to preserve its future capacity.</b></p> <ul style="list-style-type: none"> <li>• Prevents excessively deep discharge that can permanently downgrade performance (cut-off threshold 1.8 V/cell +/- 0.5%).</li> <li>• A report is sent before disconnection. (Pre-cut-off alarm threshold 1.85 V/cell +/- 0.5%).</li> <li>• 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.</li> </ul>			
> Charger consumption on the battery in autonomous mode				
	75 W	100 W - 150 W	200 W - 300 W	400 W - 600 W
24 V DC	39 mA	75 mA	44 mA	106 mA

## > For optimal communication



Displaying and remote reporting of the information

- **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.
- **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/cell indicated by flashing orange LED (autonomous mode).
  - Remote reporting by dry contact with delay (failsafe).

On motherboard

- **Internal signaling on the motherboard**  
A LED on the motherboard indicates operational status before the cabinet is closed (display board not connected).  
Signals:
  - 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

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 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>
Load (2 outputs)	4 x 2.5 mm <sup>2</sup>	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 mm <sup>2</sup>	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	1.5 mm <sup>2</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	Base	Cover
C24	322 x 248 x 126	IP30	Metal, RAL 9006	ABS RAL 9003
C48	425 x 345 x 120	IP30	Metal, RAL 9006	Metal, RAL 7035
C180	505 x 610 x 430	IP31	Metal, RAL 7035	Metal, RAL 7035

## > Types of battery cabinets

Version	Type	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

SLAT can change specifications on his products without prior notice.