





<b>&gt; Ratings</b>				
	75 W	150 W	300 W	600 W
12 VDC	6 A	12 A	24 A	32 A
24 VDC	3 A	6 A	12 A	24 A
48 VDC	-	3 A	6 A	12 A
The currents ( $I_n$ ) shown are at rated output power.				
<b>&gt; Standard-based specifications</b>				
Safety	EN 62368-1			
EMC - Immunity	EN 61000-6-1 • EN 61000-6-2			
EMC - Emissions	EN 61000-3-2 • EN 61000-6-3 • EN 61000-6-4 • EN 55032			
Environmental	This product range complies with the environmental policy (ISO 14001, RoHS and WEEE).			
	   			
<b>&gt; Environmental specifications</b>				
Relative humidity	<b>During storage:</b> 10% to 95% non-condensing relative humidity <b>During operation:</b> 20% to 95% non-condensing relative humidity			
Storage temperature	-25°C to +85°C			
Operating temperature	Power	75 W	100 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 maximum temperature decreases by 5% every 1,000 m			
Service life	50,000 h at 25°C (external environment) and 75% of load, product installed in a cabinet			
<b>&gt; Input characteristics</b>				
Voltages	99 to 264 V AC single-phase (300 W - 600 W) 198 to 264 V AC single-phase (150 W)			
Frequency	45 to 65 Hz			
Neutral systems	TT - TN - IT			
Inrush current	limited by NTC			
Upstream circuit breaker required	Curve D			
Class	Class I			
	75 W	150 W	300 W	600 W
Mains consumption @198 V	0.5 A	1 A	2 A	4 A
Efficiency at 20% load	71%	75%	84%	85%
Efficiency at rated load	85%	84%	90%	91%
<b>&gt; Output characteristics</b>				
Rated voltage	12 V DC	24 V DC	48 V DC	
Floating voltage ( $U_n$ ) set at half-load and at 25°C	13.6 V +/-0.5%	27.2 V +/-0.5%	54.4 V +/-0.5%	
Adjustment range in power supply mode only	12 V - 14 V	23 V - 29 V	46 V - 58 V	
Charger current limitation	From $I_n$ to $I_n$ +15%			

> For reliable output voltage			
Protection against external aggressions	- Resistance to any type of external aggression: <ul style="list-style-type: none"> <li>• Overvoltages encountered on the mains network (lightning strikes, industrial environment, isolation fault on impedance-earthed neutral system, etc.)</li> <li>• Short-circuit on the primary power supply primary by a slow blow fuse on the phase.</li> <li>• Differential mode shock waves by varistor and fuse.</li> <li>• Inversions of battery polarity.</li> <li>• Overvoltages on the secondary power supply.</li> <li>• Overcurrents and short-circuits on the secondary power supply.</li> <li>• Short-circuits inside the product, protected by primary fuse.</li> <li>• Increases in external temperatures (outside the specified range).</li> </ul>		
Charger current limitation	- The output current limitation allows to start a charge cycle on an empty battery <ul style="list-style-type: none"> <li>• Completely protects the product from short-circuits on the installation.</li> <li>• The selectivity of the protection is ensured by the fuses on each output use and the battery fuse.</li> </ul>		
High performance filtering and regulation	- Particularly efficient output voltage regulation <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 (10% to 90%).</li> </ul> - Enhanced filtering that eliminates all parasites and reduces the ripple on the V DC output. Battery capacity preserved and guarantee of optimum system operation. <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>		
> For the control of the emergency power source			
System control	<b>Monitoring of:</b> <ul style="list-style-type: none"> <li>• Status of mains, battery and load fuses.</li> <li>• Battery presence or absence.</li> <li>• Battery voltage.</li> <li>• Its operating status.</li> <li>• Mains voltage present in the correct operating range.</li> </ul>		
Battery charge management	<b>This function is essential</b> for reaching the design life and to ensure optimum operation of the battery. <ul style="list-style-type: none"> <li>• The charge voltages are factory adjusted for "sealed" recombination-type lead acid batteries.</li> <li>• They are consistent with the battery manufacturers' recommendations.</li> <li>• The charger includes battery charge current limitation.</li> <li>• The power supply to the load takes priority over the battery charge.</li> </ul>		
Battery backup	<b>Automatic disconnection of the battery at the end of discharge</b> to preserve its future capacity. <ul style="list-style-type: none"> <li>• Prevents excessively deep discharge, that may permanently downgrade performance (cut-off threshold: 1.8V/cell).</li> <li>• A report is sent before disconnection (pre-cut-off alarm threshold: 1.85V/cell).</li> <li>• Very low internal consumption.</li> <li>• This allows the application to take full advantage of the battery capacity.</li> </ul>		
> Charger consumption on the battery during autonomy			
	12 V DC	24 V DC	48 V DC
75 W	32 mA	39 mA	-
150 W	49 mA	75 mA	85 mA
300 W	65 mA	44 mA	37 mA
600 W	141 mA	106 mA	73 mA

> Communication				
Displaying and remote reporting of the information	<p><b>- Internal signaling on motherboard:</b> A LED on the motherboard indicates the operational status. Signals:</p> <ul style="list-style-type: none"> <li>• Everything OK: green</li> <li>• Mains fault: orange</li> <li>• Battery or charger fault, or load not present: red (this fault takes priority over a mains fault).</li> </ul> <p><b>- Mains fault:</b> Remote reporting by means of a dry contact with time delay relay (fail-safe).</p> <p><b>- Charger fault:</b> A charger fault occurs if the mains fuse is out of order or not present, or if the unit is out of order. Remote reporting by means of a dry contact with time delay relay (fail-safe).</p> <p><b>- Battery fault:</b> A battery fault occurs if the battery is not present or if voltage &lt; 1.85 V/cell in autonomous mode. Remote reporting by means of a dry contact with time delay relay (fail-safe).</p>			
> Connection specifications				
Screw terminal	75 W	150 W	300 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)	2.5 mm <sup>2</sup>	6 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>
Alarm report*	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 can be unplugged				
> Boards characteristics				
Version	Dimensions W x H x D (mm)	Base	Cover	
CG1	105 x 185 x 57	Metal	Grid	
CG2	125 x 177 x 68	Metal	Grid	
CG3	182 x 231 x 73	Metal	Grid	
CG4	215 x 265 x 77	Metal	Grid	

SLAT can change specifications on his products without prior notice.