





> Ratings				
	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.				
> Standard-based specifications				
Safety	• EN IEC 62368-1 (2020) + A11 (2020)			
EMC - Immunity	• EN IEC 61000-6-1 (2019) • EN IEC 61000-6-2 (2019)			
EMC - Emissions	• EN IEC 61000-3-2 (2019) • EN IEC 61000-6-3 (2021) • EN IEC 61000-6-4 (2019) • EN 55032			
Environmental	This product range complies with the environmental policy (ISO 14001, RoHS and WEEE).			
	   			
> Environmental specifications				
Relative humidity	During storage: 10% to 95% non-condensing relative humidity During operation: 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			
MTBF	200,000 h at 25°C (external environment) and 75% of load, product installed in a cabinet			
> Input characteristics				
Voltages	99 to 264 V AC single-phase (75W - 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%
> Output characteristics				
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	<ul style="list-style-type: none"> - Resistance to any type of external aggression: <ul style="list-style-type: none"> • Overvoltages encountered on the mains network (lightning strikes, industrial environment, isolation fault on impedance-earthed neutral system, etc.) • Short-circuit on the primary power supply primary by a slow blow fuse on the phase. • Differential mode shock waves by varistor and fuse. • Inversions of battery polarity. • Overvoltages on the secondary power supply. • Overcurrents and short-circuits on the secondary power supply. • Short-circuits inside the product, protected by primary fuse. • Increases in external temperatures (outside the specified range). 		
Charger current limitation	<ul style="list-style-type: none"> - The output current limitation allows to start a charge cycle on an empty battery • Completely protects the product from short-circuits on the installation. • The selectivity of the protection is ensured by the fuses on each output use and the battery fuse. 		
High performance filtering and regulation	<ul style="list-style-type: none"> - Particularly efficient output voltage regulation <ul style="list-style-type: none"> • Static regulation < 0.5% of U_n. • Dynamic regulation < 5% of U_n for cumulative variations of the mains and the load (10% to 90%). - 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"> • LF rms ripple < 0.2% of U_n. • HF ripple (20 MHz-50 Ω) < 4% of U_n. 		
> For the control of the emergency power source			
System control	Monitoring of: <ul style="list-style-type: none"> • Status of mains, battery and load fuses. • Battery presence or absence. • Battery voltage. • Its operating status. • Mains voltage present in the correct operating range. 		
Battery charge management	This function is essential for reaching the design life and to ensure optimum operation of the battery. <ul style="list-style-type: none"> • The charge voltages are factory adjusted for "sealed" recombination-type lead acid batteries. • They are consistent with the battery manufacturers' recommendations. • The charger includes battery charge current limitation. • The power supply to the load takes priority over the battery charge. 		
Battery backup	Automatic disconnection of the battery at the end of discharge to preserve its future capacity. <ul style="list-style-type: none"> • Prevents excessively deep discharge, that may permanently downgrade performance (cut-off threshold: 1.8V/cell). • A report is sent before disconnection (pre-cut-off alarm threshold: 1.85V/cell). • Very low internal consumption. • This allows the application to take full advantage of the battery capacity. 		
> 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>- Internal signaling on motherboard: A LED on the motherboard indicates the operational status. Signals:</p> <ul style="list-style-type: none"> • Everything OK: green • Mains fault: orange • Battery or charger fault, or load not present: red (this fault takes priority over a mains fault). <p>- Mains fault: Remote reporting by means of a dry contact with time delay relay (fail-safe).</p> <p>- Charger fault: 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>- Battery fault: A battery fault occurs if the battery is not present or if voltage < 1.85 V/cell in autonomous mode. Remote reporting by means of a dry contact with time delay relay (fail-safe).</p>
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> Connection specifications

Screw terminal	75 W	150 W	300 W	600 W
Mains	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Batteries	2.5 mm ²	6 mm ²	6 mm ²	10 mm ²
Load (2 outputs)	2.5 mm ²	6 mm ²	6 mm ²	10 mm ²
Alarm report*	1.5 mm ²	1.5 mm ²	1.5 mm ²	1.5 mm ²

*The alarm report connector can be unplugged

> Boards characteristics

Version	Dimensions W x H x D (mm)	Base	Cover
CG1	130 x 104 x 41	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.