





<b>&gt; Ratings</b>							
	75 W	100 W	150 W	200 W	300 W	400 W	600 W
12 V DC	6 A	8 A	12 A	16 A	24 A	32 A	48 A
24 V DC	3 A	4 A	6 A	8 A	12 A	16 A	24 A
48 V DC	-	2 A	3 A	4 A	6 A	8 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 class B						
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>In operation:</b> 20% to 95% non-condensing relative humidity						
Storage temperature	-25°C to +85°C						
Operating temperature	Efficiency	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 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>							
Voltage	99 to 264 V AC single-phase						
Frequency	45 to 65 Hz						
Neutral systems	TT - TN - IT						
Inrush current	limited by CTN						
Upstream circuit breaker to be provided	Bipolar D curve						
Class	Class I						
<i>Note: For the 100 W - 150 W range: 198 to 264 V AC</i>							
	75 W	100 W	150 W	200 W	300 W	400 W	600 W
Mains consumption @198 V	0.5 A	0.75 A	1 A	1.5 A	2 A	3 A	4 A
Output	75 W	100 W - 150 W		200 W - 300 W		400 W - 600 W	
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	$I_n$						

> 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>• 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 on an empty 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.</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 that eliminates all noise and reduces the ripple on the DC output.</b>                      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 EVOLUTION 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>• 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	<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 battery at end of discharge to preserve its future capacity.</b></p> <ul style="list-style-type: none"> <li>• Prevents 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>• Very low internal consumption.</li> <li>• This allows your application to take full advantage of the battery's 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	-
100 W - 150 W	49 mA	75 mA	85 mA
200 W - 300 W	65 mA	45 mA	37 mA
400 W - 600 W	141 mA	106 mA	73 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).

### - Output:

- Voltage presence (no threshold) on the load outputs indicated by green LED. If either of the two outputs has no voltage, the LED will go out.
- No associated relay.

### - 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).

### Comment:

- In the case of C6 cabinet installation, signaling is accomplished by a single indicator light:
- No fault: green
- Mains fault: orange
- Battery or charger fault, or output load not present: red (this fault takes priority over a mains fault).

### - 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 output 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>
Batteries	2.5 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>		10 mm <sup>2</sup>
Alarm reports*	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>		1.5 mm <sup>2</sup>

\*the alarm report connector is unpluggable

Note: the battery and 12 V/48 A load terminals are 35 mm<sup>2</sup>

## > Options

3 or 5 fuse output kit	<ul style="list-style-type: none"> <li>• Customer installable printed circuit board.</li> <li>• Secured by 4 clips on the motherboard.</li> <li>• Connectors with 2.5 mm<sup>2</sup> screw terminals.</li> <li>• Fuse 5 x 20 rating 4 A.</li> </ul>
Omega DIN rail mounting kit	<ul style="list-style-type: none"> <li>• Adapter for mounting the C6 and C23 cabinet on a DIN type rail</li> </ul>
Digital display on C85 cabinet.	in quantity, consult us.
TCR cabinet	For redundancy, maximal current 40 A.

<b>&gt; Cabinet and rack characteristics</b>				
Version	Size W x H x D (mm)	IP	Base	Cover
C6	194 x 243 x 97	IP30	Metal, RAL 9006	ABS RAL 9003
C23	248 x 322 x 126	IP30	Metal, RAL 9006	ABS RAL 9003
C24	322 x 248 x 126	IP30	Metal, RAL 9006	ABS RAL 9003
C38	289 x 350 x 189	IP31	Metal, RAL 7035	Metal, RAL 7035
C48	425 x 345 x 120	IP30	Metal, RAL 9006	ABS RAL 9003
C85	408 x 408 x 224	IP31	Metal, RAL 7035	Metal, RAL 7035
C180	505 x 610 x 430	IP31	Metal, RAL 7035	Metal, RAL 7035
Rack F3U	482 x 132 x 110	IP30	Metal, RAL 7035	Metal, RAL 7035
Rack	483 x 132 x 235	IP30	Metal, RAL 7035	Metal, RAL 7035
<b>&gt; Types of battery cabinets</b>				
Version	Type	12 V DC	24 V DC	48 V DC
C6	Wall-mounted & Floor-mounted	-	-	-
C23	Wall-mounted	-	-	-
C24	Wall-mounted	7 Ah, 12 Ah, 24 Ah (2 x 12 Ah)	7 Ah, 12 Ah	2.1 Ah
C38	Wall-mounted & Floor-mounted	17 Ah, 24 Ah, 38 Ah	17 Ah, 24 Ah	7 Ah, 12 Ah
C48	Wall-mounted	24 Ah (2 x 12 Ah), 36 Ah (3 x 12 Ah), 48 Ah (4 x 12 Ah)	7 Ah, 12 Ah, 24 Ah (4 x 12 Ah)	7 Ah, 12 Ah
C85	Wall-mounted & Floor-mounted	48 Ah (2 x 24 Ah), 65 Ah, 80 Ah, 96 Ah (4 x 24 Ah)	24 Ah, 38 Ah, 48 Ah (4 x 24 Ah)	12 Ah, 17 Ah, 24 Ah
C180	Floor-mounted	120 Ah, 130 Ah, 140 Ah	65 Ah, 80 Ah, 120 Ah, 130 Ah, 170 Ah	38 Ah, 65 Ah, 80 Ah
Rack F3U	Rack	-	-	-
Rack	Rack	-	-	-

SLAT can change specifications on his products without prior notice.