> Ratings				
	300 W		600 W	
	I_n	I_{Load}	I_n	I_{Load}
12 V DC	24 A	8 to 16 A	48 A	16 to 32 A
24 V DC	12 A	4 to 10 A	24 A	10 to 16 A
48 V DC	6 A	2 to 4 A	12 A	4 to 10 A

> 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 - Emission	• EN IEC 61000-3-2 (2019) • EN IEC 61000-6-3 (2021) • EN IEC 61000-6-4 (2019) • EN 55032 class B
Environment	This product range meets the environmental requirements of ISO 14001, RoHS and WEEE Standards.

> Environmental specifications		
Humidity	**During storage:** relative humidity 10% to 95% non-condensing **In operation:** relative humidity 20% to 95% non-condensing	
Storage temperature	-25°C to +85°C	
Working temperature	Power	300 W - 600 W
	75% of load	-5°C to +50°C
	100% of load	-5°C to +40°C
Altitude	Above 2,000m, the temperature decreases by 5% every 1,000m	
MTBF	200,000 hours at 25°C (ext. environment) and 75% of load, product installed in 19'' rack	

> Input specifications		
Voltages	99 to 264 V AC single-phase	
Frequency	45 to 65 Hz	
Neutral system	TT - TN - IT	
Inrush current	limited by CTN	
Upstream circuit breaker required	Bipolar curve D	
Class	Class I	
	300 W	600 W
Mains consumption @ 198 V	2 A	4 A
Converter	300 W	600 W
At 20% load	84%	85%
At rated load	90%	91%

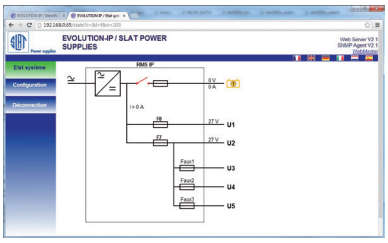
> Output specifications			
Rated voltage	12 V DC	24 V DC	48 V DC
Floating voltage (U_n) set at half-load and 25°C	13.6 V +/-0.5%	27.2 V +/-0.5%	54.4 V +/-0.5%
Setting range in power supply mode only	12 V - 14 V	23 V - 29 V	46 V - 58 V
Charger current limitation	I_n		
Load voltage	13.6 V DC	27.2 V DC	54.4 V DC

> For reliable output voltage	
Protection against external attack	**- Resistance to all types of external aggressions:** • Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system, etc.) • Short-circuit on the primary power supply by a slow-blow fuse on the phase. • Differential mode shock waves by varistor and fuse. • Battery polarity inversions. • Overvoltages on secondary. • Overcurrents and short-circuits at secondary. • Short-circuits inside the product, protected by primary fuse. • Increases in external temperatures (outside the specified range).
Charger current limitation control	**- Output current limitation allows a charging cycle to be started on an empty battery** • Protects the product completely from short-circuits on the installation. • Protection selectivity is provided by fuses on each load output and the battery fuse.
High-performance regulation and filtering	**- Particularly effective output voltage regulation** • Static regulation < 0.5% U_n. • Dynamic regulation < 5% U_n for cumulative variations of the mains voltage and the load (from 10% to 90%). **- Enhanced filtering which eliminates all interference and reduces the ripple voltage on the DC output.** Battery capacity preserved and a guarantee of optimum system operation. • LF rms ripple voltage < 0.2% U_n. • HF ripple voltage (20 MHz-50 Ω) < 4% U_n. *N.B.: the* EVOLUTION IP - RMS IP *range can work without a battery and be used connected directly to the mains.*
> For the control and management of the emergency power source	
System control	- **Monitoring of:** • The status of mains, battery and load fuses. • Battery presence or absence. • Battery voltage and its operating status. • Mains voltage present in the correct operating range.
Battery charge management	- **This function is essential** to acheive the theoretical design life and to ensure optimum operation of the battery. • The load voltages are factory set for “sealed” recombination-type lead acid batteries. • They are consistent with the battery manufacturers’ recommendations. • The charger features battery charging current limitation. • Supplying power to the load takes priority over battery charging.
Battery backup	- **Automatic disconnection of the battery at end of discharge** to preserve its future capacity. • Prevents excessively deep discharge that would permanently downgrade performance (cut-out threshold 1.8V/cell +/-0.5%). • Information is transmitted before disconnection (pre-cut out alarm at 1.85V/cell +/-0.5%). • Very low internal consumption. • This allows your application to take full advantage of the battery’s capacity.

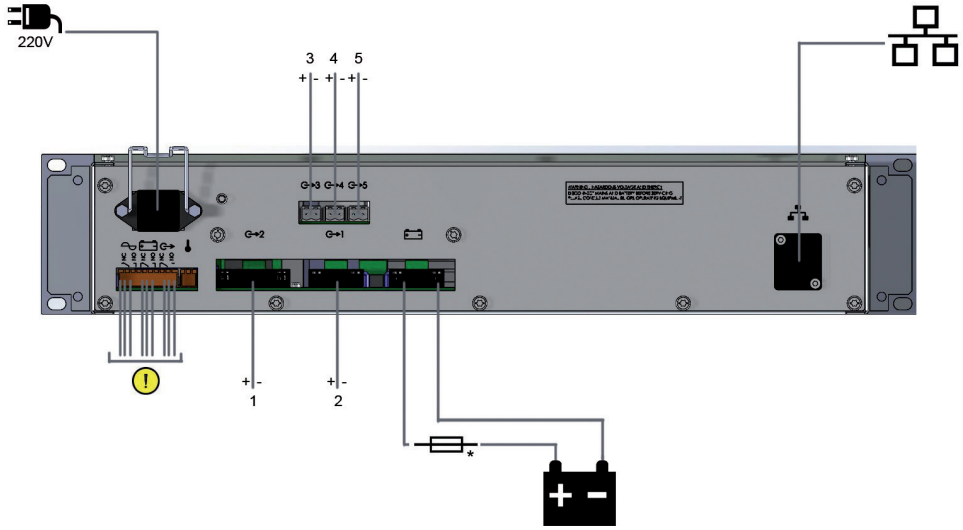
> Charger consumption on the battery during autonomy

	12 V	24 V	48 V
300 W	65 mA	45 mA	37 mA
600 W	141 mA	106 mA	73 mA

> IP Communication	
Ethernet configuration	- **Configuring rack communication settings using a computer.** - 2 groups possible: • Administrator • User
Available languages	• French • English • German • Italian • Dutch • Spanish

> IP Communication	
Management by IP, reports viewed remotely	 - **The items shown on the Management screen are:** • Name of managed product. • Mains present / absent. • AC / DC converter OK or faulty. • Fuses OK or faulty. • Battery switch open / closed. • Current direction charge / discharge. • Battery present / battery circuit faulty. • Low battery: product shutdown imminent, back-up failure. **- MIB made available upon request from the supervision site.**
Reports viewed locally	 - **Display** 16 characters, 1 line: • Mains voltage. • Battery voltage and current. • Load voltage (by load output). • Information about the various problems (mains, charger, fuse, battery, etc.). - Integrated **MMI**: The user can navigate using the push button on the front panel, to the right of the display. - **Energy-saving function:** The display automatically goes into standby mode.

> Connection specifications



**Fuse not included, to be calibrated according to the maximum load current of the installation.*

Plug-in connectors	300 W	600 W
Mains	2.5 mm^2	2.5 mm^2
Battery	6 mm^2	10 mm^2
Load outputs 1 and 2	6 mm^2	10 mm^2
Auxiliary load outputs 3, 4 and 5	1.5 mm^2	1.5 mm^2
Alarm reports	1.5 mm^2	1.5 mm^2
Ethernet cable	cat 5e / cat 6e (RJ45)	cat 5e / cat 6e (RJ45)

> Rack characteristics

	Size W x H x D (mm)	IP	Base	Front panel
2U Rack	483 x 89 x 395	IP30	Metal	Metal, RAL 7035

> Charger I_n summary / I Load / associated battery capacity / VRLA

Designation	I_n (whole charger)	I_{Load}	Maximum battery capacity (C/10)
RMS IP 12V 8A 16A UTIL	24 A	From 8 to 16 A	160 Ah
RMS IP 12V 16A 32A UTIL	48 A	From 16 to 32 A	320 Ah
RMS IP 24V 4A 10A UTIL	12 A	From 4 to 10 A	80 Ah
RMS IP 24V 10A 16A UTIL	24 A	From 10 to 16 A	140 Ah
RMS IP 48V 2A 4A UTIL	6 A	From 2 to 4 A	40 Ah
RMS IP 48V 4A 10A UTIL	12 A	From 4 to 10 A	80 Ah

SLAT can change specifications on his products without prior notice.