

Gutor Modular charger systems are designed for long lifetime, even in harsh environments, with highly flexible configurations.

Designed for Harsh Environments

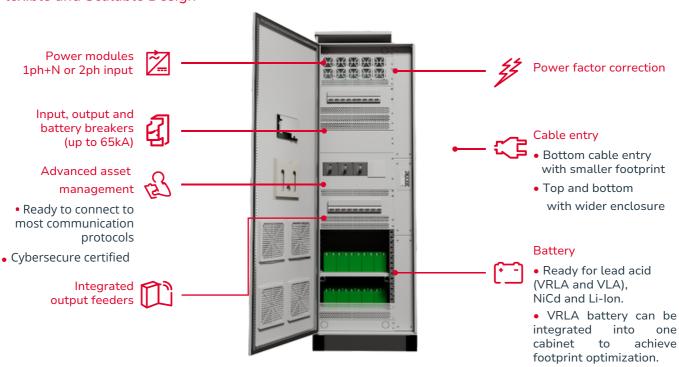
- Protects against electrical outage with surge protection and galvanic isolation.
- The strong input short circuit capability allows it to be installed near to substation equipments.
- Industrial enclosure with unique framework increases robustness and protection.
- NEMA 1 with ingress protection up to NEMA 2.
- Has 20 year design lifespan.

Enhance System Availability

- N+1 or N+x design increases the internal redundancy of the system.
- All power modules with "live swap" concept allows it to be maintained and repaired without interrupting the load.



Flexible and Scalable Design





Technical Data

Typical configuration		GUMADC 24		GUMADC 48, GUMADC 110, GUMADC 125, GUMADC 220		
Nominal input voltage		120V (1ph)	240V or 277V (1ph) 208V (3ph or 2ph) 480V (3ph+N)	120V (1ph)	240V or 277V (1ph) 208V (3ph or 2ph) 480V (3ph+N)	
Output (kW)	1 rack	up to 4.5kW	up to 9kW	up to 7.5kW	up to 15kW	
	2 racks	up to 9kW	up to 18kW	up to 15kW	up to 30kW	
	3 racks	up to 13.5kW	up to 27kW	up to 22.5kW	up to 45kW	

Model	GUMADC 24	GUMADC 48	GUMAD	C 125	GUMADC 220		
Rectifier input							
Input voltage range (VAC)	1ph 120 – 277 V +-10% (other voltage upon request)						
Frequency	50 / 60 Hz +-10% (same typing as Frequency)						
THDi harmonic	≤ 5%						
Power factor	Up to 0.99						
Withstand short circuit (kA)	up to 65 kA upon request						
DC output							
Voltage range (VDC)	19.0 - 33.6 V 36.0 - 67.5 V 88.0 - 153.9 V 170.0 - 297						
Dynamic Load Regulation	± 5% (transient time < 10 ms, load (90-10-90) %, di/dt < 200 A/ms)						
Charging Characteristic	IPU / IU (Constant current - constant voltage)						
DC Ripple Acc. EN 300132-	< 20 mV & 1% < 60 m	ıV & 1%	< 60 mV &	1%			
2 DC overcurrent capability	130% for < 4s						
Blocking Diode feature	included in each module						
Efficiency	up to 95%						
General arrangement							
Configuration	iguration N+0, N+1, N+x. Dual input feeder capable (2N configuration)						
Input neutral earthing type	TN or IT or High Resistive Ground						
Display	10" touch display with up to 39 virtual LEDs for warning or alarms						
Communication	Minimum 2 output dry contacts Modbus TCP / Modbus RS485 / SNMP, IEC 61850 in option Other communication protocol upon request						
EPO	Emergency power off input terminal with an internal 24 V DC power supply						
Serviceability	MTBF > 300 000 h. A low MTTR with the live swap concept - replacing the power module without switching off the system						
Battery protection	Built-in battery breaker possible						
Output earthing system	Floating DC with optional ground fault detection						
Battery	Built-in VRLA battery or standalone battery such as flooded lead-acid, Ni-Cd and Li-ion						
Output feeders	Up to 9 built-in output breakers with signal contact						
Dimensions (width x depth x height)	Top entry - NEMA 1 : $31.5 \times 23.7 \times 82.7$ inches ($800 \times 600 \times 2100$ mm) Bottom entry - NEMA 1 : $23.7 \times 23.7 \times 82.7$ inches ($600 \times 600 \times 2100$ mm) For NEMA 2 (Top entry / Bottom entry), the height is 86.2 inches (2191 mm)						
Cable entry	Bottom entry / Top and bottom entry option with additional 7.8 inch (200 mm) width						
Ambient temperature range for operation	14°F to 113°F (-10°C to 45°C) Higher ambient condition upon request						
Noise level	5568 dBA						
Air flow	from front to top.						
Allowable air humidity	up to 95% non-condensing						
Altitude above sea level	nominal up to 6,600 feet (2,000 m), max 10,000 feet (3,000 m) with deratingh						
Paint	RAL 7035, similar as ANSI-61						
Standards	UL 1012 and CAN/CSAC22.2 No.107.2						
Options							
Built-in configuration	additional dry contacts, analogic metering, input voltage adaptation, voltage dropper, DC/DC converter, inverter, multiple battery string protection						

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