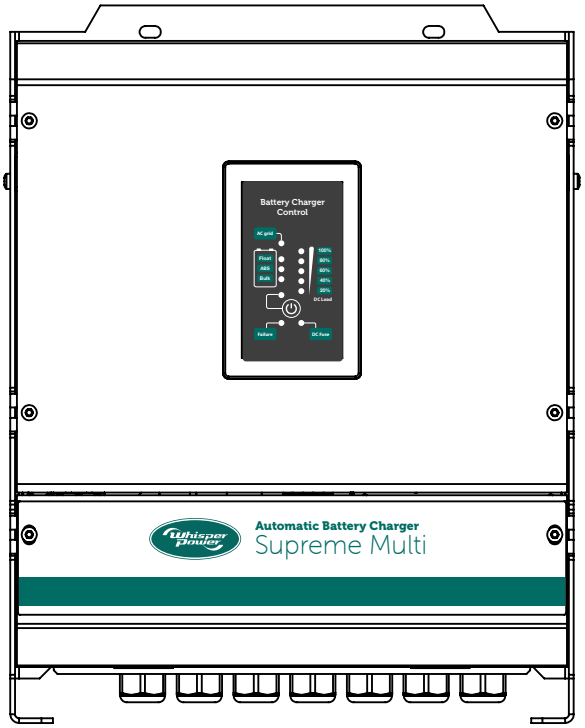
Automatic Battery Charger
Supreme Multi

Automatic battery chargers | 12/80-4 | 24/60-4 | 24/100-4 | 48/50-1



Heavy-duty range of battery chargers for domestic, maritime, recreational vehicle, residential or industrial use. Also suitable for use as a power supply. Wide voltage input range, from 120/230VAC (50/60Hz) with multiple DC outputs. Includes the most advanced switched mode technology to ensure compactness and low weight.

Perfect all-in-one solution

- Powerful IUoUo battery charger, suitable for any type of battery
- 12, 24 and 48 VDC models available for 50, 60, 80 and 100 Ampere charging current
- 4 separate outputs to charge multiple battery banks
- Models with universal autoranging input (90-265 VAC, 50-60 Hz, full power)
- Industrial high-frequency, optimally suppressed power electronics
- High efficiency, low heat development, optimal cooling
- Place multiple units parallel to use as a powerful central (DC-UPS) power supply

Ultra-compact and lightweight

Thanks to the new electronics this new generation of product is 30 to 60% lighter than the previous one. The weight of the 24 volt 100 amp unit is just under 5.8 kg.

4 Independent isolated outputs

The Supreme Multi offer 4 independent isolated DC outputs. It allows to simplify the charging system consisting of several battery banks.

WhisperConnect

WhisperConnect plug & play communication skills. All Supreme Multi chargers feature CAN communication port for remote monitoring and control.

High-Efficiency DSP technology

The Supreme Multi Chargers deliver power even at very high temperatures (up to 50°C/122°F). This "derating" feature is quite unique on the market. The unit automatically derates to supply the highest possible power.

Selectable battery chemistries

9 Selectable charging profiles including Lead Acid, Gel, AGM, Lithium batteries with optional temperature compensation.

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Application Data 1

Art. nr.	12/80-4 60205580	24/60-4 60205660	24/100-4 60205601	48/50-1 60205750
GENERAL SPECIFICATIONS				
Nominal input voltage	120 / 230 V	120 / 230 V	230 V	230 V
Nominal input frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Nominal output voltage	12 V	24 V	24 V	48 V
Total charge current (25°C)	80A @ 14.4V @ 120 VAC	60A @ 28.8V @ 120 VAC	N.A.	N.A.
	80A @ 14.4V @ 230 VAC	60A @ 28.8V @ 230 VAC	100A @ 28.8V @ 230 VAC	50A @ 57.6V @ 230 VAC
Number of battery outlets	4	4	4	1
Charge characteristic	IUoUo, automatic / 3-step for GEL/AGM/wet/lead acid batteries/LIFEPO4			
Charge voltage Bulk (25°C)	14.4 V	28.8 V	28.8 V	57.6 V
Charge voltage Absorption (25°C)	14.4 V	28.8 V	28.8 V	57.6 V
Charge voltage Float (25°C)	13.8 V	27.6 V	27.6 V	55.2 V
Max. Bulk time	4 hours	4 hours	4 hours	4 hours
Enclosure type & dimensions (hxwxd in mm)	380 x 308 x 123	380 x 308 x 123	380 x 308 x 123	380 x 308 x 123
Enclosure type & dimensions (hxwxd in inch)	14.96" x 12.13" x 4.84"	14.96" x 12.13" x 4.84"	14.96" x 12.13" x 4.84"	14.96" x 12.13" x 4.84"
Weight	4.4 kg /9.7 lbs	4.4 kg /9.7 lbs	5.2 kg /11.46 lbs	5.2 kg /11.46 lbs
Battery capacity (recommendation)	300-600 Ah	300-600 Ah	400-1500 Ah	400-1000 Ah
TECHNICAL SPECIFICATIONS				
Power factor (cos phi)	>_ 0.97	>_ 0.97	>_ 0.97	>_ 0.97
Full load consumption (230VAC)	1400VA	2000VA	3200VA	3200VA
Temperature compensation	battery temperature sensor (optional)			
DC consumption with connected battery	< 5 mA			
Display	unit has a LED display for charge/voltage and charge indication			
Temperature range	-25 to +60 °C / -13 to 140°F, maximum temperature is 40°C at 100% output current, above 40°C-60 °C, maximum output current is 50% load at 60°C, below -20°C , maximum output current is 10% load.			
Cooling	3 x vario fan and natural cooling to ensure optimized cooling			
Sound level (40% load @ 40°C)	< 55dBA @ 1 m	< 55dBA @ 1 m	N.A.	N.A.
Protection degree	IP23	IP23	IP23	IP23
Approvals	fully CE according to LVD Directive 2014/35/EU, EMC directive 2014/30/EU, design to meet ISO8846, SAE J1171 and Ignition Proof.			

Available from Q3 2026

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5053-16.12.2025_BC_Supreme-Multi-Datasheet

Drawing 1