

## External super charger

TYPE: **External Charging System**

TYPE OF BATTERIES : **VRLA, AGM, GEL**

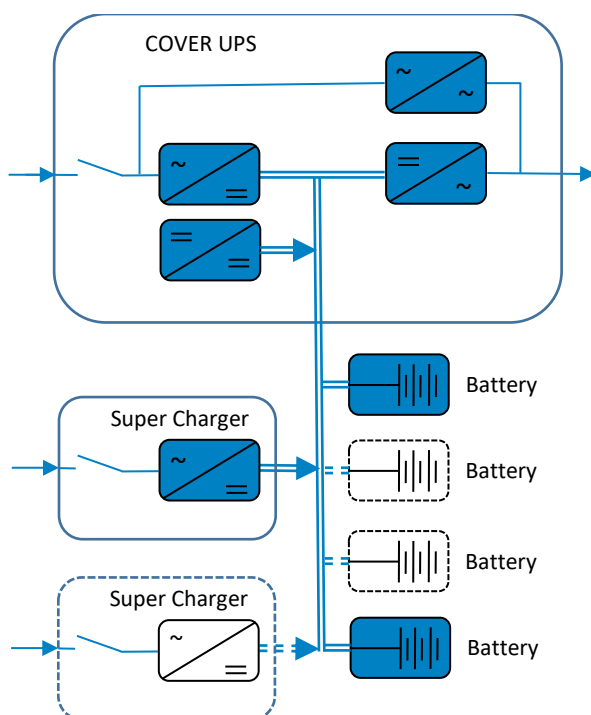
APPLICATION : **UPS COVER**

PHASE CONFIGURATION : **1 phase power supply**



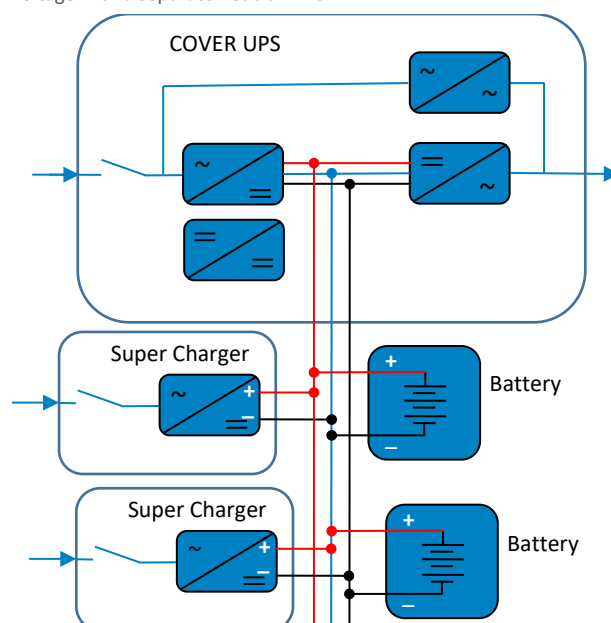
### ■ TYPICAL APPLICATIONS

Parallel operation of several Super Chargers and cooperation with UPS COVER. Multiple Super Chargers can be combined with parallel battery banks for more current.



Serial work of Super Chargers and cooperation with UPS COVER.

Super Chargers can be connected in series to obtain symmetrical battery voltage with a separate neutral wire.



### ■ CHARACTERISTIC

**Insulated construction** provides separation of batteries from the network.

**Rectifier with power factor corrector** guarantees high efficiency and full use of the power supply and elimination of reactive power.

**Microprocessor control** enables control and precise control of the battery charging process in each operating mode.





**Short-circuit, thermal and reverse polarity protection** ensures safe operation and comfort of work.

**Charge current can be adjusted** enables precise selection of charging parameters for a wide range of battery capacities.

**Advanced battery management** guarantees optimal charging and use of accumulator batteries. The 3-stage charging process extends their service life by up to 50% and reduces operating costs.

**Parallel operation possible** makes the device a universal solution and is used in many configurations requiring very high battery charging currents.

## External Super charger

Model	EC036-15	EC048-15	EC072-12	EC240-04	EC240-12	EC240-24
Nominal voltage Maximum current	36 Vdc 15 A	48 Vdc 15 A	72 Vdc 12 A	240 Vdc 4 A	240 Vdc 12 A	240 Vdc 24 A
Housing						
AC input						
Number of supply phases	1					
Supply voltage	208 / 220 / 230 / 240 Vac					
Voltage range	165 ÷ 285 Vac					
Frequency	50 / 60 Hz					
frequency range	-20% ÷ +20%					
Maximum input current	8 A			10 A	30 A	60 A
Power connector	IEC320 socket				Connection terminal	
DC output						
Adjustment range of the maximum charging current	3 – 15 A		3 – 12 A	1 – 4 A	3 – 12 A	6 – 24 A
Type of batteries	VRLA / AGM					
Battery nominal voltage	12 Vdc					
Single Battery Float Charging Voltage	13,7 Vdc ±0,15 Vdc					
Boost charging voltage of a single battery	14,1 Vdc ±0,15 Vdc					
Nominal number of batteries in a string	3	4	6	20		
Possible configurations of the number of batteries	3	4	6	15, 16, 18, 19, 20		
Output connector	2 ANEN type sockets (Anderson)					
Can be connected in parallel with a UPS charger	yes					
Parallel connection with other chargers	yes					
Serial connection possible for a chain with a separate neutral point (± 240 Vdc, etc.)	no			yes		
Charging modes	Constant current charging Constant voltage boost charging Constant Voltage Float Charging					
Charge cycle	According to DIN 41773 with automatic charging cut-off according to the criterion of current and voltage, with time control.					
Dimensions and weight						
UPS dimensions (W x D x H) [mm]	165 x 300 x 96			298 x 175 x 106	515 x 220 x 136	570 x 250 x 215
Weight	3,1 kg			4,1 kg	7,2 kg	14,0 kg
Signaling						
Working status indicator	Working status LED indicators Charging mode LED indicators Audible alarm			Working status LED indicators		
Environmental conditions						
Noise level	<50 dB					
Permissible operating temperature	0°C ÷ 40°C					
Storage temperature	-25°C ÷ 55°C					
Humidity	5 ÷ 95% (no condensation)					

The publication provides the parameters of standard models. Due to continuous product improvement, we reserve the right to change parameters without prior notice.