



VOLTXB48150 DATASHEET

Battery Charger 48VDC 150A



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KEY FEATURES

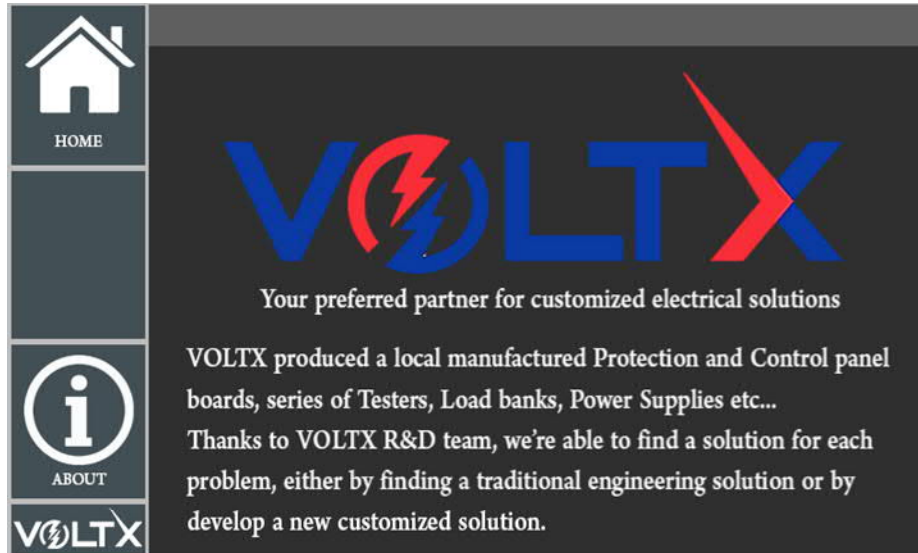
- Universal AC input / Full range 3Phase 380VAC $\pm 10\%$ stationary charger.
- Protections:
 - Short circuit protection.
 - Overload protection.
 - Input source Phase failure (not phase sequence).
 - Over voltage and under voltage.
- Input Power Factor: $PF \geq 0.85$.
- DC current output up to 150A.
- Microprocessor / Digital based controlled.
- Operate with a Front Panel Touch Screen 7 inch.
- Fail-Safe basis switched contactors for voltage-dropping diodes in the load circuit
- Digital metering, alarms, control settings and status indicators on front panel Screen.
- 6 Pulse fully controlled silicon controlled rectifier Thyristors fixed in one sub-assembly.
- Strictly stable programmable output voltage up to 66VDC to supply the loads and battery simultaneously.

DESCRIPTION

- The Battery Charger (VOLTXB48150) is an AC/DC battery charger operates for 380VAC $\pm 10\%$ input voltage and provides wide output DC voltage range up to 66VDC and output DC current up to 150A.
- Built in advanced alarming and metering capabilities.
- VOLTXB48150 enclosure offers a suitable protection for the charger.
- Safety is the main feature for VOLTXB48150, the output is isolated from the main input supply.

PANEL DESCRIPTION

- The Panel is quiet easy access and powerful operation tool with complete safety integrity features.



SPECIFICATIONS of VOLTXB48150

Specifications are valid at nominal input voltage and an ambient temperature -5°C up to 55°C.

General specifications:

Mains voltage	3Phase 380VAC $\pm 10\%$, 50 Hz
Output Voltage	up to 66VDC
Output current	up to 150A
Protections	3Poles MCB for Main input and 3 Poles MCCBs for DC outputs
Approx. Dimensions (L x W x H)	80 x 60 x 120 cm
Weight without external pack	120 kg
Display	7" touch screen
Protection degree	IP 51
Cooling	Natural air
Efficiency at full load	$\geq 85\%$
Communication	Modbus RTU
Dropper diode stages	2
parallel redundant operation	Available

Measurement specifications:

All measurements are displayed on HMI Screen

DC Outputs Voltages / Currents	DC mean value
3 phase AC Input Voltages / Currents	AC True RMS

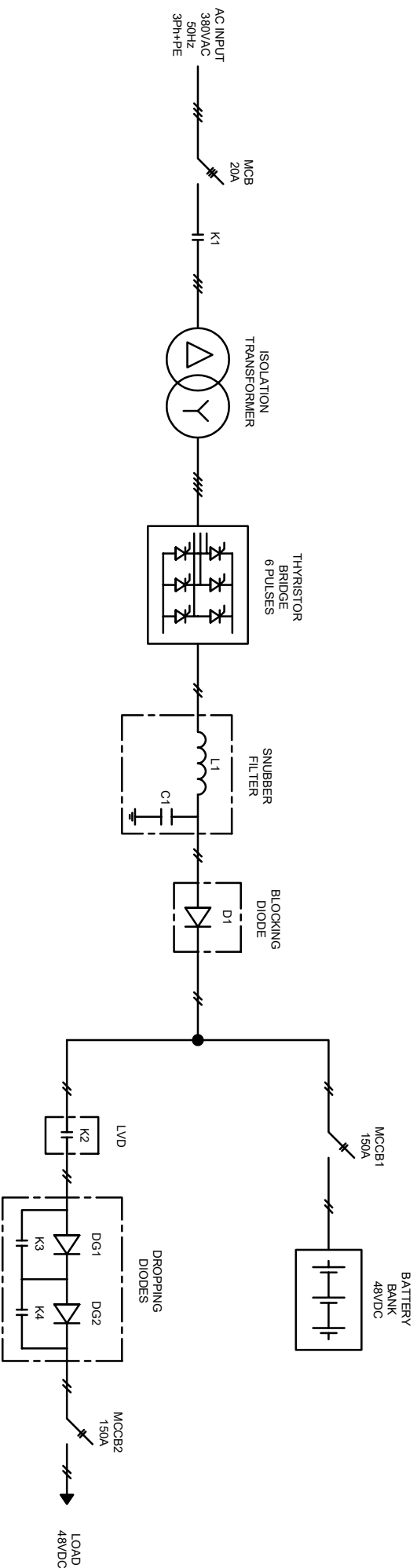
Outputs:

Rated output voltage	48VDC
Rated DC current	150A
Normal charge voltage adjustment range	48-56 VDC
High rate charge voltage adjustment range	56-66 VDC
Maximum peak value of the superimposed AC voltage on the floating charge voltage	0.2%
Time for full charging the battery after full discharged	≤ 10 hr
Ripple voltage without battery	$< 0.2\%$
Ripple voltage with battery	$< 0.1\%$
Method of controlling the DC supply voltage during boosting charging	dropper diode method
Under voltage protection	LVD at 43VDC

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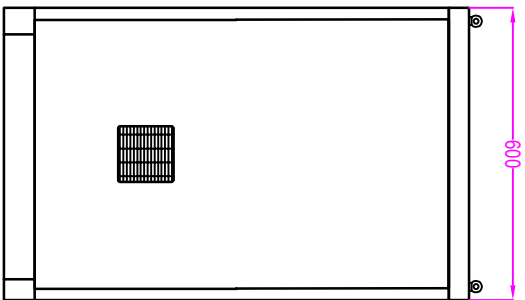
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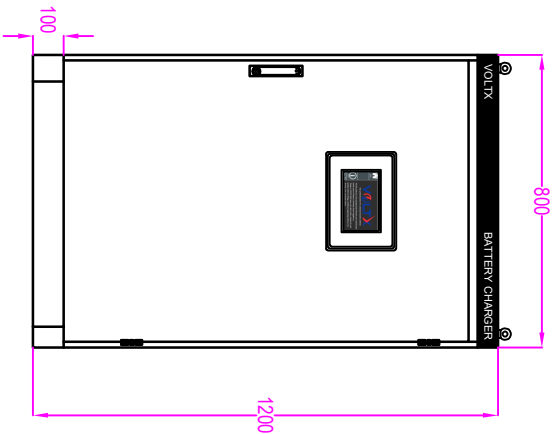
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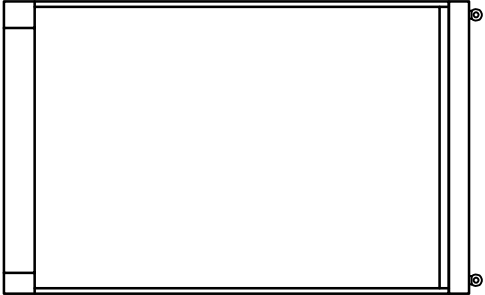
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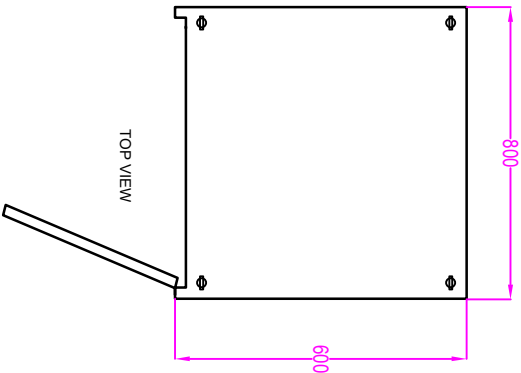
SIDE VIEW



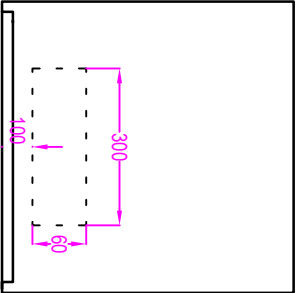
FRONT VIEW



REAR VIEW



TOP VIEW



BOTTOM VIEW

DIMENSION : 800X600X1200 mm
PAINT : POWDER COATED
COLOUR : RAL7035
COOLING : NATURAL AIR
CABLE ENTRY : FROM BOTTOM



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