



Hybrid Power

AC/DC Charger

Charger for batteries or cap. modules

- Innovative in energy storage & Power Electronics
- Custom-made solutions
- Complete solution: storage & Power Electronics
- Design and system integration



Features

- Long life cycle and life time
- CAN-bus interface
- Current sensing
- Specifications can be customized
- Programmable AC/DC charge
- Approved for heavy-duty shock and vibration norms
- EMC and temperature certified
- Intelligent platform

Mechanical Data

Length x Width x Height
137 x 270 x 75 mm
Approx. 3,0 kg

Applications

- UPS wind turbine pitching
- Wind turbine LVRT
- Warehouse / logistic AGV
- UPS
- Industrial
- Power supplies

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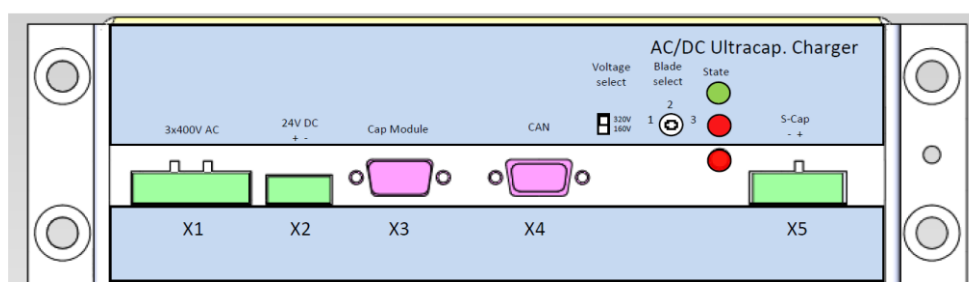


Electrical Characteristics

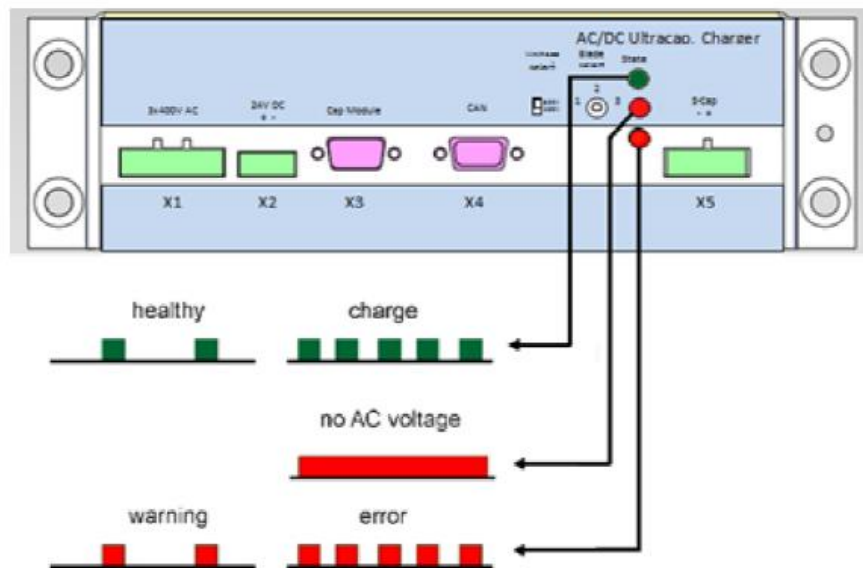
Symbol	Parameter	Description	Value	Unit
General				
P_r	Rated power	@ U_{sr} 320VDC, I_{charge} 3A	1,0	kW
P_{max}	Maximum power		2,4	kW
f_r	Switching frequency		20	kHz
η_r	Efficiency		>90	%
Primary side				
U_{Pr}	Rated voltage		400	V AC $\pm 10\%$
$U_{Pr,max}$	Max. operating voltage		440	V AC
Secondary side				
U_{sr}	Rated voltage		Up to 480	V DC
$U_{s,max}$	Max. operating voltage		500	V DC
I_{charge}	Charge current		Up to 3	A
Control side				
	Control voltage		24	V DC $\pm 10\%$
	Storage temperature		0,5	A

Inputs / Outputs

Connector	Parameter	Description
X1	Main supply	3x 400 V _{AC} / 1A
X2	Auxiliary supply	24 V _{DC}
X3	Capacitor signals	
X4	CAN-bus	CAN-open, communication (status, warnings and error) with extern main-control or PLC
X5	DC output	0 V _{DC} to 500 V _{DC} / up to 3A



Led signal - status



Connector	Application	Order no.	Make	Spec.
X1	Main supply 400 V _{AC}	1939756	Phoenix contact	GFKC 2,5/3-STF-7,62
X2	Auxiliary supply 24 V _{DC}	1851232	Phoenix contact	FK-MCP 1,5/2-STF-3,81
X3	Capacitor signals			
X4	CAN-bus			
X5	DC output 160 V _{DC}	1939743	Phoenix contact	GFKC 2,5/2-STF-7,62

Certifying Tests

Description / Conditions	
IEC 60068	Shock and Vibration
EN 61000	Electric Magnetic Compatibility (EMC)
	Temperature test -40°C to 60°C



Mechanical Data

Length x Width x Height: 137 x 270 x 75 mm (w/o connector lengths)
Weight: Approx. 3 kg
Housing: IP40 (connector IP20)
Mounting: DIN rail mounting on L x H side

