

Art.Nr. 10012459

Battery protection | BAT BREAKER-Spec.BYD-3xAccu-1xCharger_standard_KL

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Designation	Battery protection BAT BREAKER-Spec.BYD-3xAccu-1xCharger_standard_KL
Application	Battery protection for BYD's 'Battery Box' energy storage system
Number and type of battery charger / inverter	1 x Sunny Island
Number and type of energy storage units	Max. 3 x BYD 48V Battery-Box (ALL types)
General information	If the battery protection is used for other systems, the suitability of the circuit breakers used (rated value, tripping characteristic) cannot be guaranteed! In this case, consult the system manufacturer and/or the manufacturer of the battery charger/inverter.

All values in [mm]

Dimensions

Fastening points

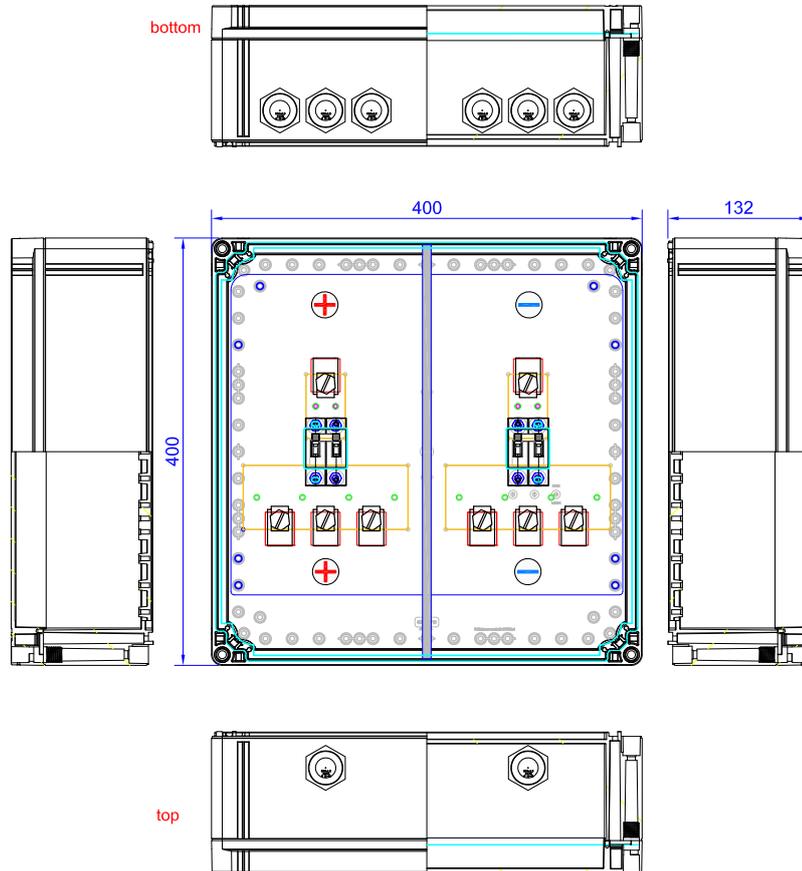
„blue“
„orange“

Inner construction as well as choice of components may differ within the variants!

Minimum Distances

top	300
bottom	300
lateral	200
front	800

Cable support must be provided on site!



SCOPE OF DELIVERY

Quantity	Designation	Quantity	Designation
1	General installation instructions	8	Cable gland M32 incl. locknut
2	Membrane insertion EMT 32		

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TECHNICAL DATA

NOMINAL VALUES

• applicable / - not applicable

Rated voltage	[VDC]	75
Rated current / Peak output current	[A]	compatible with BYD 48V Battery-Box
Switchable maximum short-circuit current	[A]	10
Charger		
Rated current circuit breaker	[A]	200 per potenzial
Trip characteristics of circuit breakers		„DC Long Delay“
Battery		
Rated current circuit breaker	[A]	-
Trip characteristics of circuit breakers		-

CONNECTION ENERGY STORAGE (downward departure)

Number of possible batteries (parallel)		3
Cable entry		
Cable glands (EN 62444)		M32
Clamping range (from - to)	[Ømm]	13 - 21
Maximum cable length		see manufacturer's instructions
Connections		
Connection type		wire terminal
Max. wire cross-section	[mm ²]	16 - 120
Recommended wire cross-section	[mm ²]	70 - 120
Wire material		copper
Stripping length	[mm]	ca. 25
Tightening torque	[Nm]	22

CONNECTION CHARGER (upward departure)

Number of possible chargers / inverters		1
Cable entry		
Cable glands (EN 62444)		M32
Clamping range (from - to)	[Ømm]	13 - 21
Max. cable length		see manufacturer's instructions
Connections		
Connection type		wire terminal
Max. wire cross-section	[mm ²]	16 - 120
Recommended wire cross-section	[mm ²]	70 - 120
Wire material		copper
Stripping length	[mm]	ca. 25
Tightening torque	[Nm]	22

Status: (October 2023)

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TECHNICAL DATA

GENERAL DATA		• applicable / - not applicable
Dimensions WxHxD (without cable glands)	[mm]	400 x 400 x 132
Weight, approx.	[kg]	8,5
Operating temperature range	[°C]	0...+45
Temperature - transport/storageg (24h 70°C)	[°C]	-25...+55
Humidity - condensing allowed	•/-	-
Humidity - permitted range	[%]	5...85
Max. altitude above sea level	[m]	2000
Protection class IP (EN 60529)		65
Outdoor suitability (protected area)	•/-	-
Protection against electric shock (EN 61140)		II
Case material		Polycarbonat
RoHS-conformity (2011/65/EU)	•/-	•
Case colour		similar RAL 7035
Cover		transparent
Mounting method		wall mounting
Locking system		screw cap
MISCELLANEOUS		
Customs tariff number		85371098

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EC DECLARATION OF CONFORMITY

The product, designation:	BAT BREAKER-Spec.BYD-3xAccu-1xCharger_standard_KL
article number	10012459
manufacturer:	enwitec electronic GmbH Scherrwies 2 84329 Rogglfing
description:	Battery protection for PV energy storage systems

to which this declaration relates, is in conformity to the following standards or normative documents:

EN 61439-1	Low-voltage switchgear and controlgear assemblies
EN 61439-2	Power switchgear and controlgear assemblies
VDE-AR-E 2510-2	Stationary electrical energy storage systems

and is in accordance with the provisions of the following EC-directives:

Low-voltage directive 2014/35/EU
Restriction of Hazardous Substances Directive 2011/65/EU (RoHS)

Year of affixing CE-marking:	2017
Date of issue:	2017-12-11

enwitec electronic GmbH



Name / Signature

Johann Wimmer
CEO