

Art.Nr. 10015452

Battery protection with thermal-magnetic circuit breakers

Bat Breaker-BYD\_LVLPR\_6xAcc\_3xCharg\_KS\_exsf

enwitec electronic GmbH

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Designation	Bat Breaker-BYD_LVLPR_6xAcc_3xCharg_KS_exsf
Application	BAT BREAKER battery fuse for BYD's <b>Battery-Box Premium LVL</b> energy storage system
Number and type of battery charger / inverter	Max. 3 x Sunny Island
Number and type of energy storage units	Max. 6 x BYD's Battery-Box Premium LVL
General information	If the battery protection is to be 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. Cable lugs not included in delivery

All values in [mm]

Dimensions

Fastening points

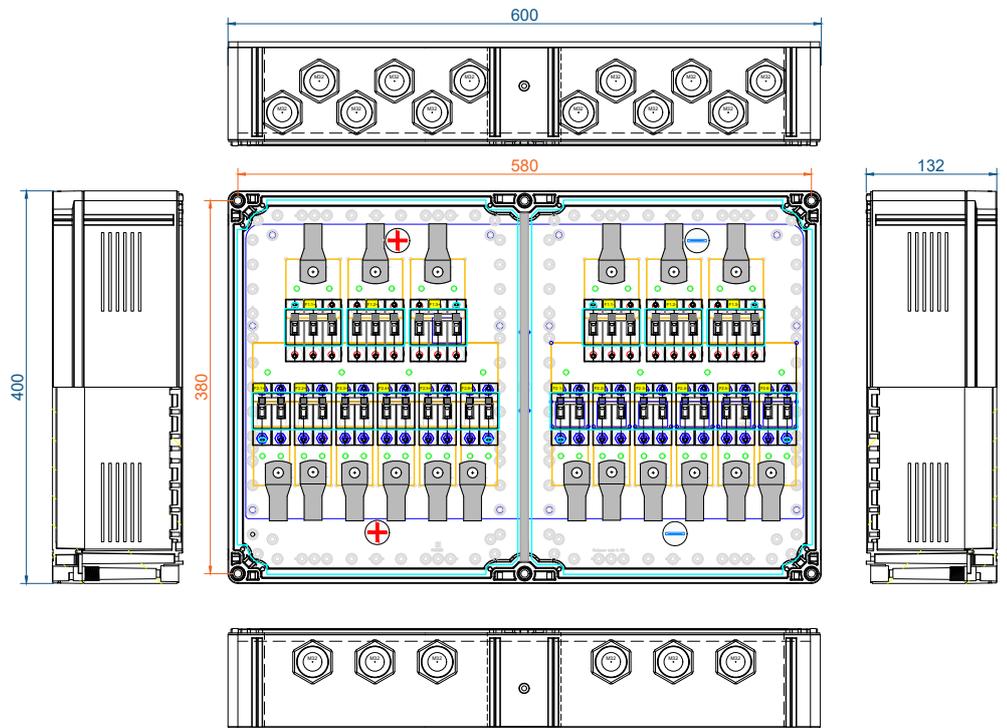
„blue“  
„orange“

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	18	Cable gland M32 incl. locknut
4	Choke nipple M32		

Status: (December 2021)

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## TECHNICAL DATA

### NOMINAL VALUES

• applicable / - not applicable

Rated voltage	[VDC]	60
Rated current / Peak output current	[A]	compatible with BYD Battery-Box Premium LVL
Switchable maximum short-circuit current	[kA]	10
<b>Charger</b>		
Rated current circuit breaker	[A]	250 per potenzial
Trip characteristics of circuit breakers		„DC Long Delay“
<b>Battery</b>		
Rated current circuit breaker	[A]	250 per potenzial
Trip characteristics of circuit breakers		„DC Long Delay“

### CONNECTION ENERGY STORAGE

Number of possible batteries (parallel)		6
<b>Cable entry</b>		
Cable glands (EN 62444)		M32
Clamping range (from - to)	[Ømm]	15 - 25
Maximum cable length		see manufacturer's instructions
<b>Connections</b>		
Connection type		Glass fibre cable lug M10
Max. wire cross-section	[mm <sup>2</sup> ]	95
Wire material		copper
Stripping length	[mm]	-
Tightening torque	[Nm]	23 - 28

### CONNECTION CHARGER

Number of possible chargers / inverters		3
<b>Cable entry</b>		
Cable glands (EN 62444)		M32
Clamping range (from - to)	[Ømm]	15 - 25
Max. cable length		see manufacturer's instructions
<b>Connections</b>		
Connection type		Glass fibre cable lug M10
Max. wire cross-section	[mm <sup>2</sup> ]	95
Wire material		copper
Stripping length	[mm]	-
Tightening torque	[Nm]	23 - 28

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## TECHNICAL DATA

### GENERAL DATA

• applicable / - not applicable

Dimensions WxHxD (without cable glands)	[mm]	600 x 400 x 132
Weight, approx.	[kg]	14,5
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)		31
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-BYD_LVLPR_6xAcc_3xCharg_KS_exsf
article number	10015452
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:	2020
Date of issue:	2020-09-03

enwitec electronic GmbH



Name / Signature

Johann Wimmer  
CEO