

DATA SHEET

Battery fuse protection

enwitec article no.	10012575
Customer article no.	
Designation	enwitec BAT BREAKER-Spec.BYD-5xAccu-3xCharger_ex safe_KS
Application	Battery fuse "BAT BREAKER" for the PV energy storage system with battery charger / inverter
Number and type of battery charger / inverter:	max. 3 Sunny Island except SI 8.0 in off-grid mode
Number and type of energy storage:	max. 5 x BYD B-Box 12.8
General note:	If a different battery charger / inverter is to be used, the suitability of the circuit breaker used (nominal value, tripping characteristic) must be checked by BYD. Cable lugs are not included.

Min. construction distances:

Up and down min.:

300 mm

Left and right min.:

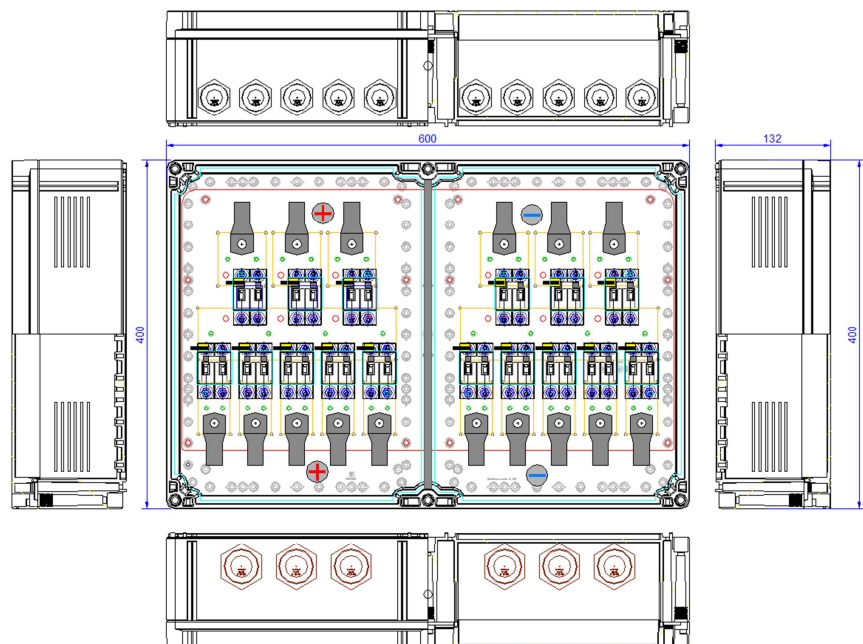
200 mm

forward min.:

800 mm

Cable clamping:

Must be done on site!



Delivery

Designation	Article no.	Piece	Comments
Cable gland M32x1,5	10011807	10	
Locknut M32x1,5	10000724	10	
Twisting Sleeve M32*1,5	10008835	2	
Cable gland M40x1,5	10000740	6	
Locknut M40x1,5	10000725	6	

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TECHNICAL SPECIFICATIONS

Rated voltage	[VDC]	75
Rated current	[A]	compatible with BYD Energy Storage System
Rated current circuit breaker for charger	[A]	200 A per potential
Tripping characteristic circuit breaker for charger		DC – „long delay“
Rated current circuit breaker for battery	[A]	200 A per potential
Tripping characteristic circuit breaker for battery		DC – „long delay“
Switchable max. short circuit current	[kA]	10

Connection of the batteries (Output downstairs)

Number of possible batteries (parallel)	5	
Cable entries		
Cable glands (EN 62444)	•/-	• (10 – M32)
Clamping area (from-to)	[Ø mm]	15 - 25
Connectors / terminals		
Conductor material	Copper	
"+" Potential / "-" Potential	+PLUS	-MINUS
Screw for cable lugs	10x M10	
Torque	[Nm]	23 - 28
Max. conductor cross section	[mm²]	95
Cable length max. (on Demand)	[m]	3
Feeder terminals	[mm²]	-
Stripping length	[mm]	-
Cross section	[mm²]	-
	AWG	-
Cable length (on demand)	[m]	-
Torque	[Nm]	-

Connection of the charger (Output upstairs)

Number of Battery Charger/Inverter	3 Sunny Island	
Cable entries		
Cable glands (EN 62444)	•/-	• (6 – M40)
Clamming area (from-to)	[Ø mm]	16 - 28
Connectors / terminals		
Conductor material	Copper	
"+" Potential / "-" Potential	+PLUS	-MINUS
Screw for cable lugs	6x M10	
Torque	[Nm]	23 - 28
Max. conductor cross section	[mm²]	95
Cable length max. (on Demand)	[m]	3
Feeder terminals	[mm²]	-
Stripping length	[mm]	-
Cross section	[mm²]	-
	AWG	-
Cable length (on demand)	[m]	-
Torque	[Nm]	-

General information

Number of housings for 1 unit	1
Dimensions (WxHxD) [mm]	1x600*400*132 (without cable glands)
Weight [kg]	aprox. 14,0
Operating temperature range [°C]	0..+45
Temperature - transportation/storage [°C]	-25..+55 (24 hours 70°C)
Humidity - condensing allowed ●/-	-
Humidity - permissible range [%]	85
Max. installation altitude above N.N. [m] (extended area on request)	2000
Protection class IP (EN 60529)	31
Outdoor-suitability ●/-	-
Type of installation	protected against vertically dripping water
Protected area: no direct sunlight, but the climatic effects on the installed equipment must be taken into account!	
Protection class (EN 61140)	II
Housing color	Polycarbonate glass fiber reinforced
RoHS- conformity (2011/65/EU)	•
Housing color	Lower part similar to RAL7035
Cover	Polycarbonate transparent
Mounting	Wall mounting
Lock type	Screw lock

Miscellaneous

[illegible]