DATA SHEET

enwitec electronic GmbH
Scherrwies 2 | 84329 Wurmannsquick
Mail info@enwitec.eu
www.enwitec.eu

Art.Nr. 10015859

Battery protection | BAT BREAKER-3xAccu_1xCharger_600VDC_HVS_HVM_1.0

Designation	Battery protection Bat Breaker - High Voltage	
Application	Battery protection for the BYD „Premium“ energy storage system - type HVS or HVM	
Number and type of battery charger / inverter	Max. 1 x battery charger	▪ Fronius SYMO GEN 24 Plus (all types) ▪ Fronius SYMO HYBRID (all types) ▪ Kostal BI 5.5/26 - 10/26 ▪ Sungrow SH5.0RT / SH6.0RT / SH8.0RT / SH10RT ▪ GoodWe GW###-ET /-BT / -EH / -BH (max. performance 10 kW) ▪ SMA Sunny Tripower Smart Energy 5.0/6.0/8.0/10.0
Number and type of energy storage units	Max. 3 x energy strorage units	▪ BYD „PREMIUM“ - type HVS or HVM
Allgemeine Hinweis	**ATTENTION: The max. recommended continuous charging/discharging current of 26 A should not be exceeded!** If the battery protection is used for systems other than those described here, the suitability of the circuit breakers used (nominal value, tripping characteristic) is not guaranteed! In this case, consult the system manufacturer and/or the manufacturer of the battery charger/inverter!	

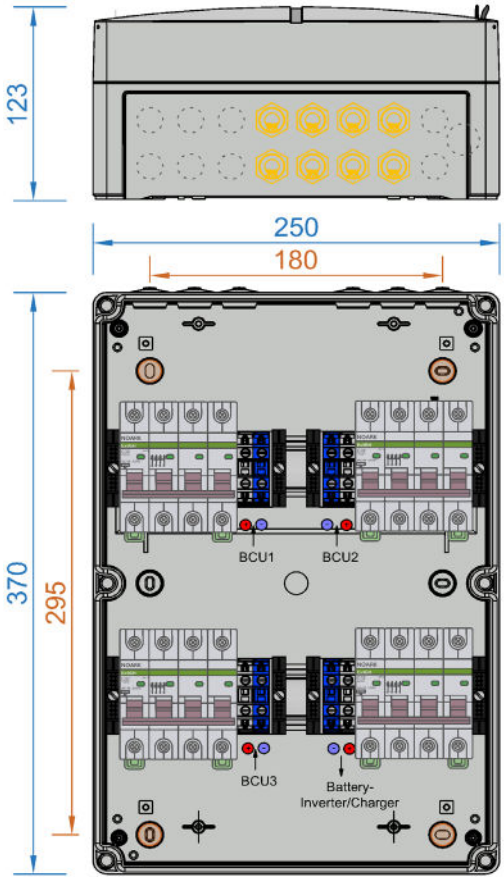
All values in [mm]
Dimensions „blue“
Fastening points „orange“

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 M16 incl. locknut

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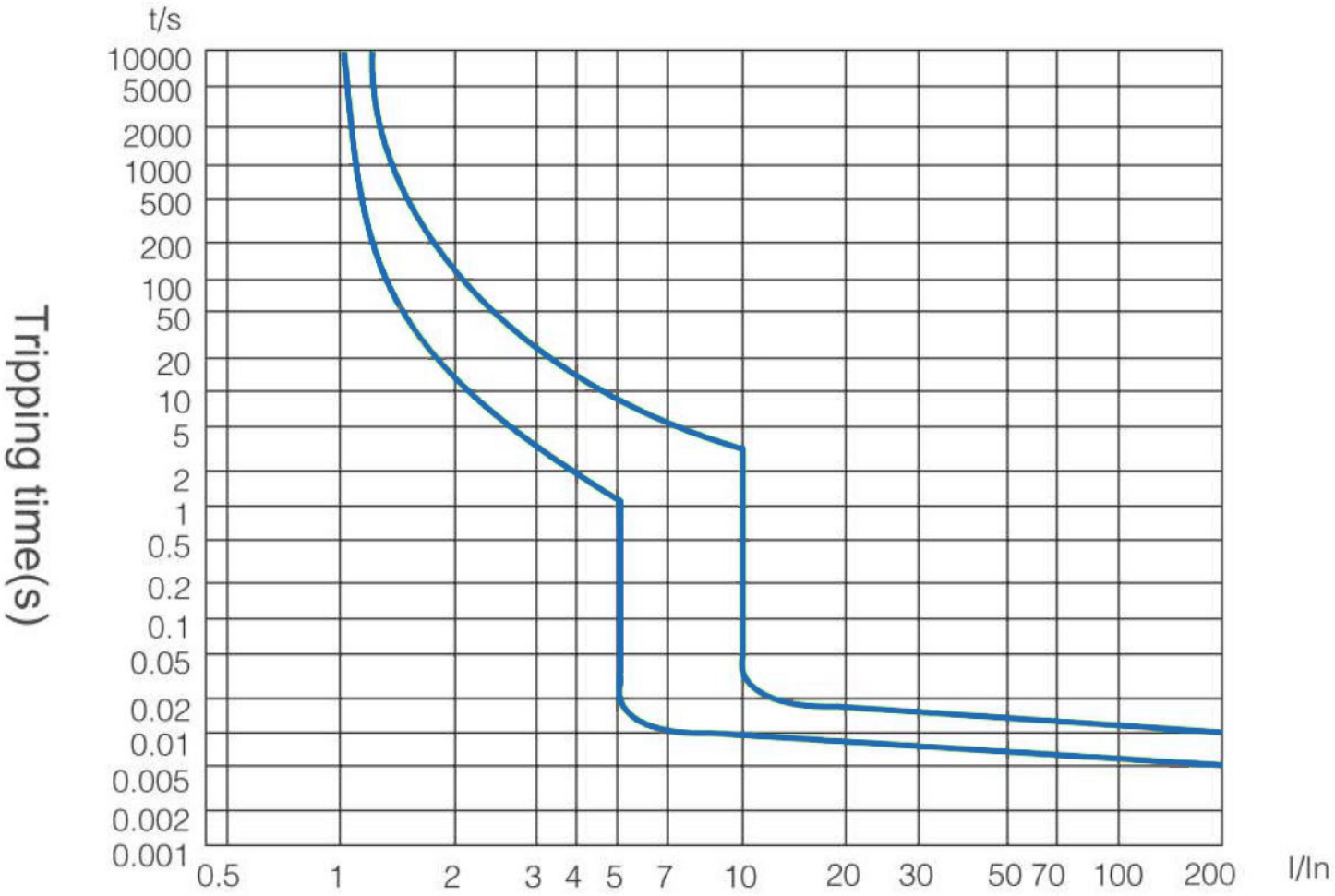
CIRCUIT BREAKER CHARACTERISTIC - „C“ CHARACTERISTIC



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TECHNICAL DATA

• applicable / - not applicable

NOMINAL VALUES		
Rated voltage	[VDC]	600
Rated current / Peak output current	[A]	compatible with BYD „Premium“ HVS/HVM
Rated current circuit breaker - charger	[A]	32 per potenzial
Recommended continuous operating current	[A]	26 per potenzial
Circuit breaker tripping characteristics - charger		C
Rated current circuit breaker - battery	[A]	32 per potenzial
Recommended continuous operating current	[A]	26 per potenzial
Circuit breaker tripping characteristics - battery		C
Switchable maximum short-circuit current	[kA]	≤6

CONNECTION ENERGY STORAGE		
Number of possible batteries (parallel)		3
Max. cable length		see manufacturer‘s instructions
Cable entry		
Cable glands (EN 62444)		M16
Clamping range (from - to)	[Ømm]	4,5 - 10
Connections		
Connection type		screw terminals
Max. wire cross-section (Cu)	[mm²]	0,5 - 10
Stripping length	[mm]	13
Conductor material and type		Copper, finely stranded with ferrule
Tightening torque	[Nm]	1,2

CONNECTION CHARGER		
Number of possible chargers / inverters		1
Max. cable length		see manufacturer‘s instructions
Cable entry		
Cable glands (EN 62444)		M16
Clamping range (from - to)	[Ømm]	4,5 - 10
Connections		
Connection type		screw terminals
Max. wire cross-section (Cu)	[mm²]	0,5 - 10
Stripping length	[mm]	13
Wire Material		Copper, finely stranded with ferrule
Tightening torque	[Nm]	1,2

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TECHNICAL DATA

• applicable / - not applicable

GENERAL DATA		
Dimensions WxHxD (without cable glands)	[mm]	250 x 370 x 123
Weight, approx.	[kg]	5
Operating temperature range	[°C]	0...+35
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		hinged cover

MISCELLANEOUS		
Customs tariff number		85371098

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EC DECLARATION OF CONFORMITY

The product,	designation:	BAT BREAKER-3xAccu_1xCharger_600VDC_HVS_HVM_1.0
	article number	**10015859**
	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: **2021**

Date of issue: **2021-02-24**

enwitec electronic GmbH

Name / Signature

Johann Wimmer
CEO

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