

Item no. 10019361

Mains switch box | Power Backup Dual EU

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

Designation	Switchover box - all-pole - standard
Application	Compatible with all off-grid battery and hybrid inverters with two three-phase AC connections up to 30 KW
Region	EU
Mains disconnection	All-pole disconnection
Net shape	3PH 230/400V - TN-C/TN-S or TT networks; NO TN-C network in the customer system!
Inverter	only suitable for inverters with their own backup output
Control & monitoring	integrated current and voltage relay (without integrated smart meter)

All values in [mm]

Dimensions

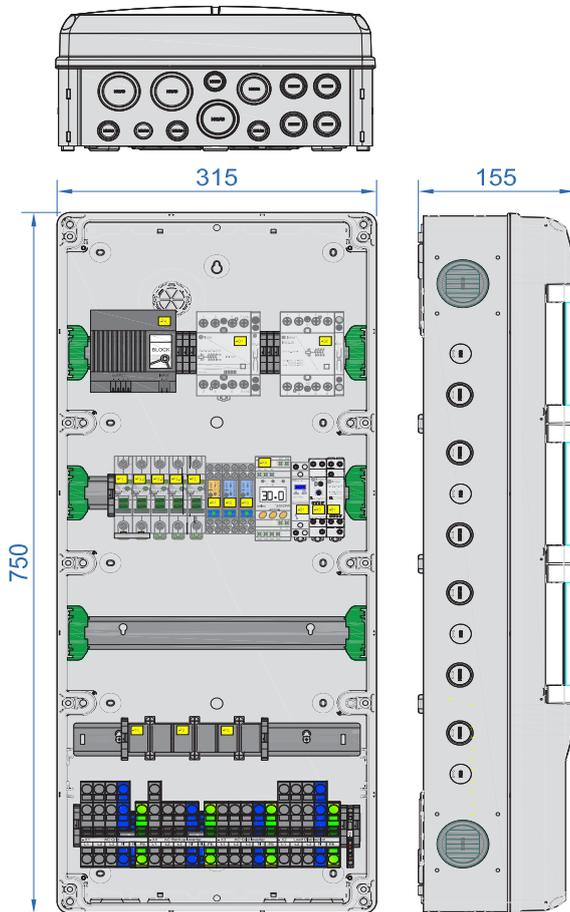
Fastening points

"blue"
"orange"

The internal arrangement and components may differ depending on the variant!

Minimum distances

top	200
below	200
lateral	100
front	800



For other languages
please scan the QR code!

SCOPE OF DELIVERY

Quantity	Designation	Quantity	Designation
1	Mains switch box	1	M20 cable gland incl. lock nut
1	Installation instructions	1	Warning sticker - dangerous voltage
3	M40 cable gland incl. lock nut	1	Sticker - reference to an off-grid storage system
4	M32 cable gland incl. locknut	1	Operating instructions Selec current monitoring relay

Status: April 2025

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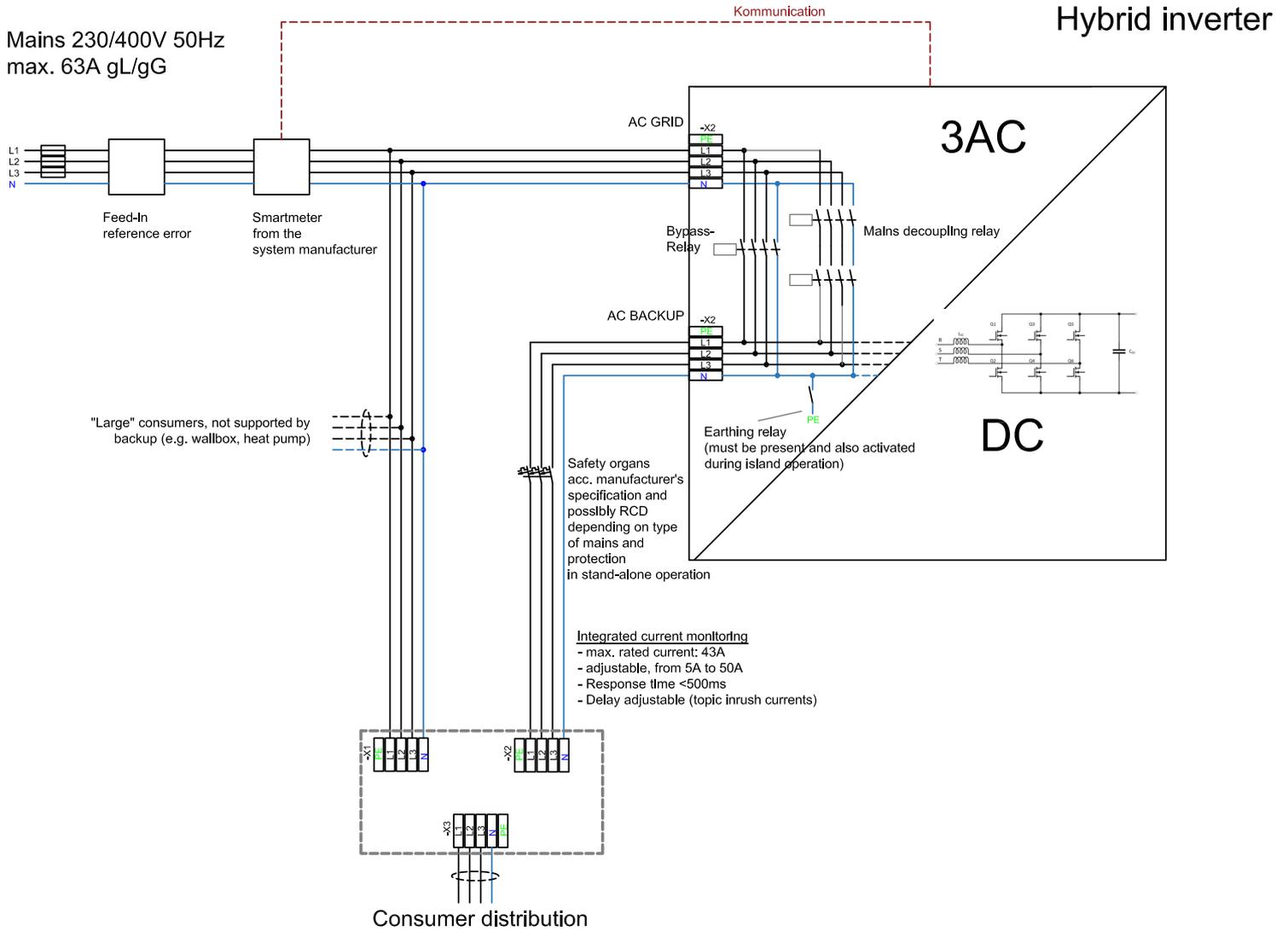
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INTERNAL WIRING

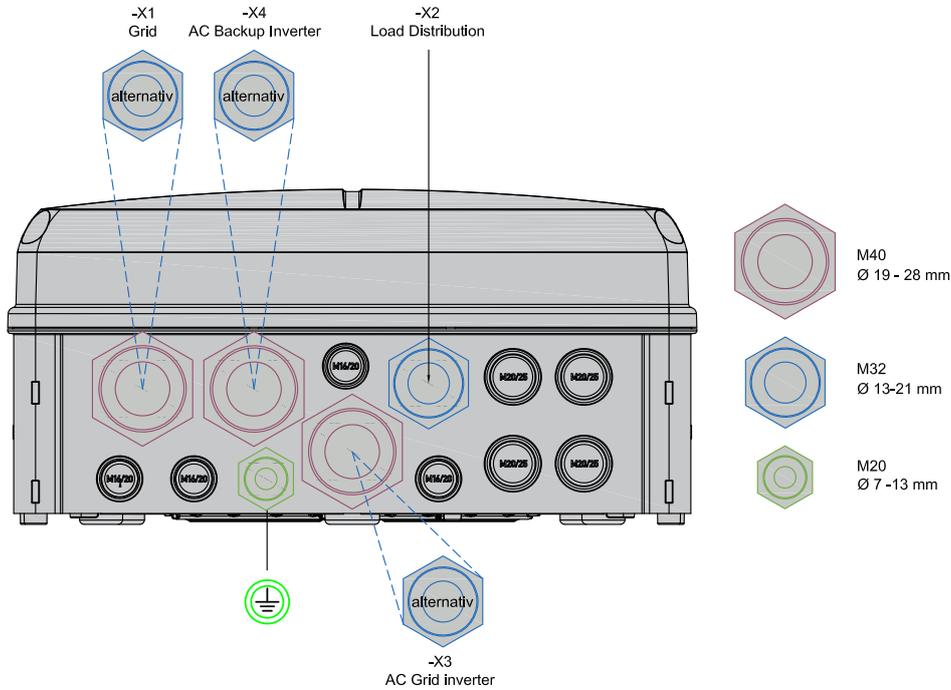


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CABLE ENTRY AND CONNECTIONS



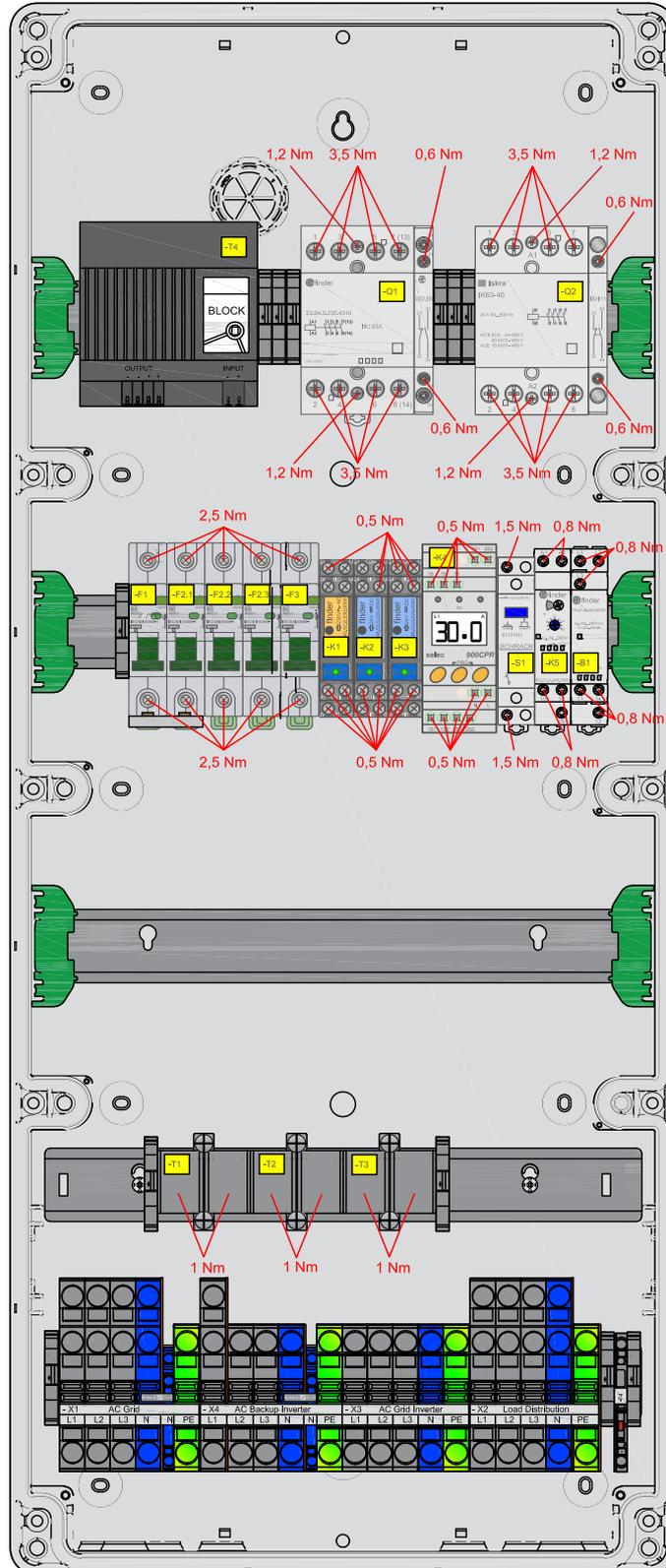
Cable gland	Terminal strip	Clamping range [mm]	Strand type	max. cross-section [mm ²]	Stripping length [mm]
<div style="display: flex; gap: 5px;"> <div style="width: 15px; height: 15px; background-color: #0070C0; border: 1px solid black;"></div> M32 <div style="width: 15px; height: 15px; background-color: #800040; border: 1px solid black;"></div> M40 </div>	-X1 - AC Grid	19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
<div style="display: flex; gap: 5px;"> <div style="width: 15px; height: 15px; background-color: #0070C0; border: 1px solid black;"></div> M32 <div style="width: 15px; height: 15px; background-color: #800040; border: 1px solid black;"></div> M40 </div>	-X3 - AC Grid Inverter	19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
<div style="display: flex; gap: 5px;"> <div style="width: 15px; height: 15px; background-color: #0070C0; border: 1px solid black;"></div> M32 <div style="width: 15px; height: 15px; background-color: #800040; border: 1px solid black;"></div> M40 </div>	-X4 - AC backup inverter	19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
<div style="width: 15px; height: 15px; background-color: #0070C0; border: 1px solid black;"></div> M32	-X2 - Load Distribution	13 - 21	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
<div style="width: 15px; height: 15px; background-color: #70AD47; border: 1px solid black;"></div> M20	PE - potential equalisation	7 - 13	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20

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TORQUES



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TECHNICAL DATA

NOMINAL VALUES - applicable / - not applicable

Rated voltage	[V]	3PH - 230/400
Rated insulation voltage	[V]	400
Operating frequency	[Hz]	50 / 60 +/- 5 %
Max. prospective* short-circuit current	[nA]	10
Permitted net shape		TN-C/S/TT/TN-S
Mains disconnection		all-pole
Max. mains-side back-up fuse	[A]	63
Max. thermal throughput $t_a = 40^\circ\text{C}$	[kW]	30
Standby losses, approx.	[W]	18

CIRCUIT BREAKERS AND RESIDUAL CURRENT CIRCUIT BREAKERS

-F1/-F2.1/ -F2.2/-F2.3	Mains" control circuit	[A]	B6
-F3	Backup" control circuit	[A]	B6
-F4	Miniature fuse 5 x 20	[A]	0.08 - inert

CONTACTORS (IEC/EN 61095; IEC/EN60947-1; IEC 60947-5-1)

-K1	Control voltage	[V]	230
-K2/-K3	Control voltage	[V]	24
-K4	Current protection relay	[V]	230
-K5	Time relay	[V]	24
-B1	Voltage monitoring relay	[V]	230
-Q1	Grid feed-in	AC1[A]	63
-Q2	Feed-in inverter backup	AC1[A]	63

PUFFER NETWORK PART

Type		Block B2302022
Power supply unit (buffered)	[VDC]	24

* is the maximum, unaffected continuous short-circuit current of the mains connection.

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TECHNICAL DATA

GENERAL		- applicable / - not applicable
Dimensions WxHxD (without screw connections)	[mm]	315 x 750 x 155
Weight, approx.	[kg]	11
Operating temperature range	[°C]	-5...+40
Temperature - transport/storage (24 hours 70°C)	[°C]	-25...+55
Humidity - condensing permitted	•/-	-
Humidity - permissible range	[%]	5...60
Max. Installation height above N.N.	[m]	2000
Protection class IP (EN 60529) $t_a = 40^\circ\text{C}$	IP	31
Outdoor suitability (protected area)	•/-	-
Installation type		Indoor area
Protection class (EN 61140)		II
Housing material		Polycarbonate
RoHS-compliant (2011/65/EU)	•/-	•
Housing colour		similar to RAL 7035
Lid		transparent
Mounting type		wall mounting
Closure type		without tools
OTHER		
Customs tariff number		85371098