

DATA SHEET

ITEM NO. 10019509

Mains switch box
POWER Backup 63 VERTO PLUS EN

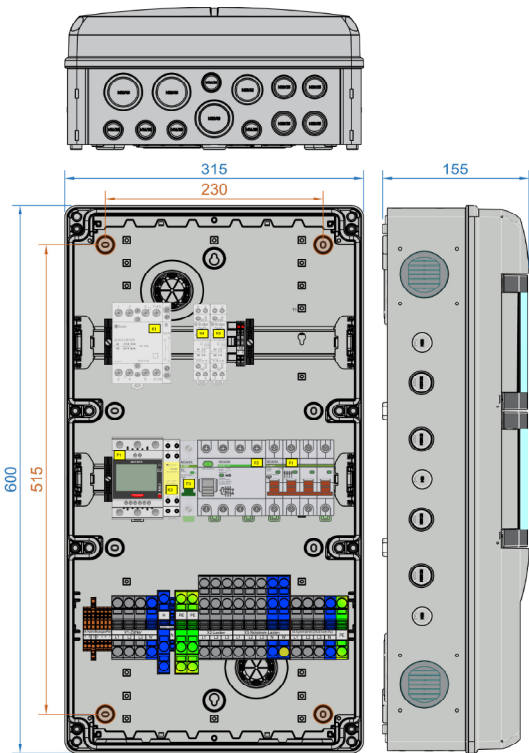
Designation	POWER Backup 63 VERTO PLUS EN
Application	For the Fronius Verto Plus "Full Backup" system
Region	Germany
Mains disconnection	All-pole or three-pole disconnection (initially configurable using jumpers)
Net shape	3PH 230/400V - TN-C/TN-S or TT networks; NO TN-C network in the customer system!
Hybrid inverter	VERTO PLUS 15.0/17.5/20.0/25.0/30.0/33.3
Control & monitoring	Fronius Smart Meter TS65A-3 - "Touchscreen" is integrated

All values in [mm]
Dimensions "blue"
Fastening points "orange"

Internal arrangement and components may differ depending on the variant!

Minimum distances

above	200
below	200
lateral	200
front	800



SCOPE OF DELIVERY

Quantity	Designation	Quantity	Designation
1	Mains switch box	1	M32 cable gland incl. lock nut
1	Installation instructions	2	M20 cable gland incl. lock nut
1	Operating instructions Fronius Smart Meter	1 set	Jumpers (for mains isolation configuration)
1	Circuit diagram DIN A3	1	Emergency power sticker Fronius
1 set	Cover caps for fastening screws	1	"Dangerous voltage" warning sticker
3	M40 cable gland incl. locknut		

Status: (a)
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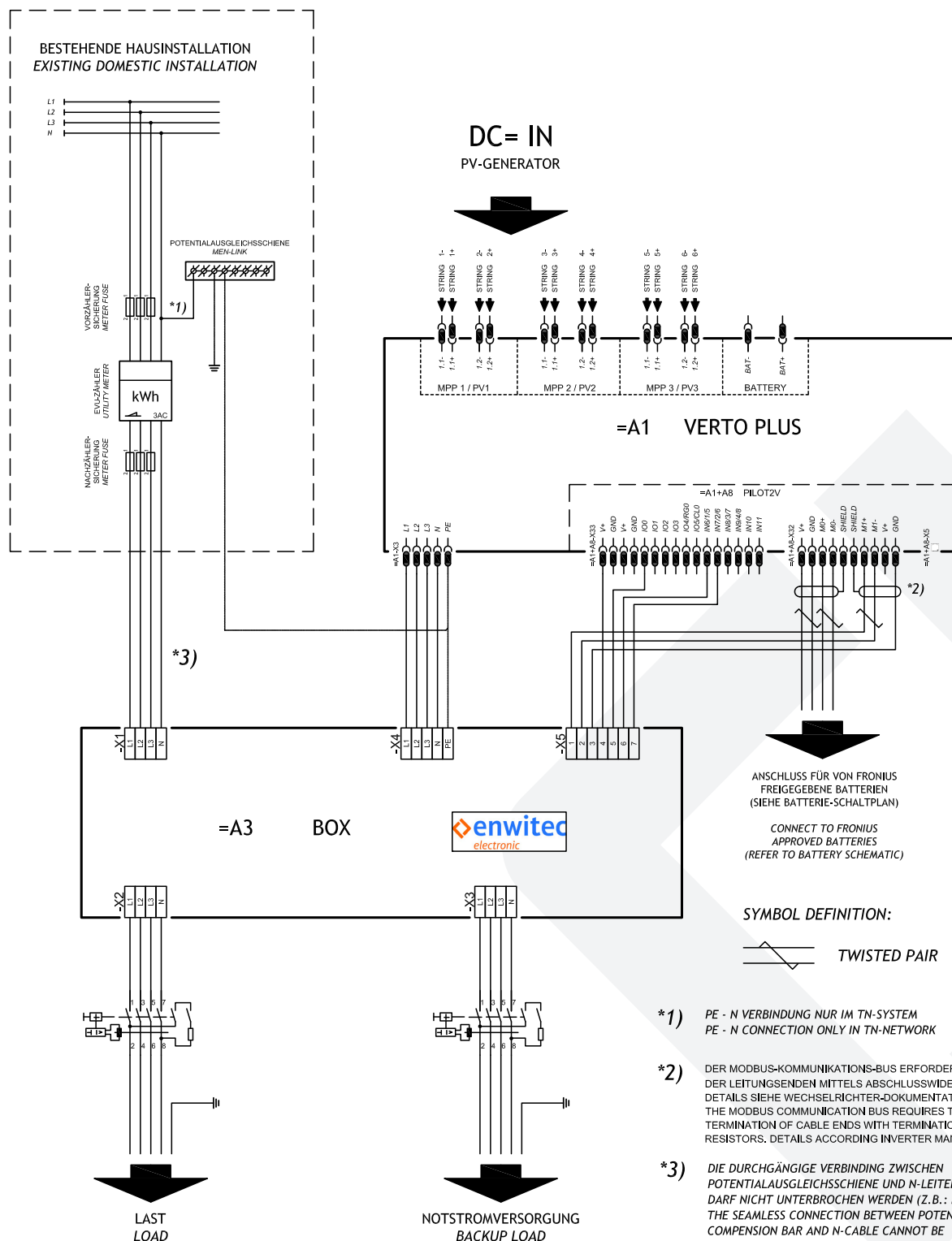
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WIRING ENVIRONMENT VERTO PLUS



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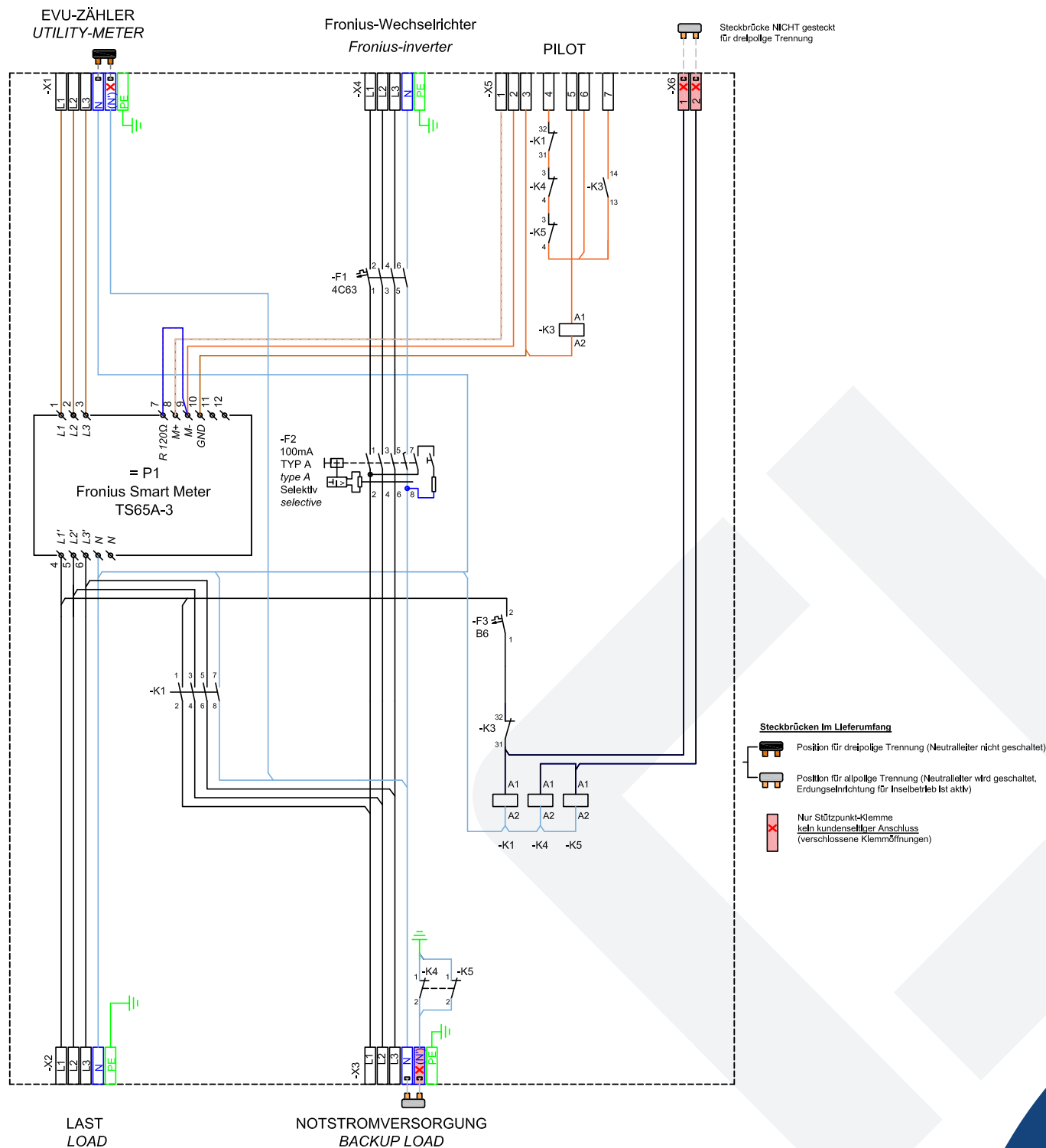
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INTERNAL WIRING



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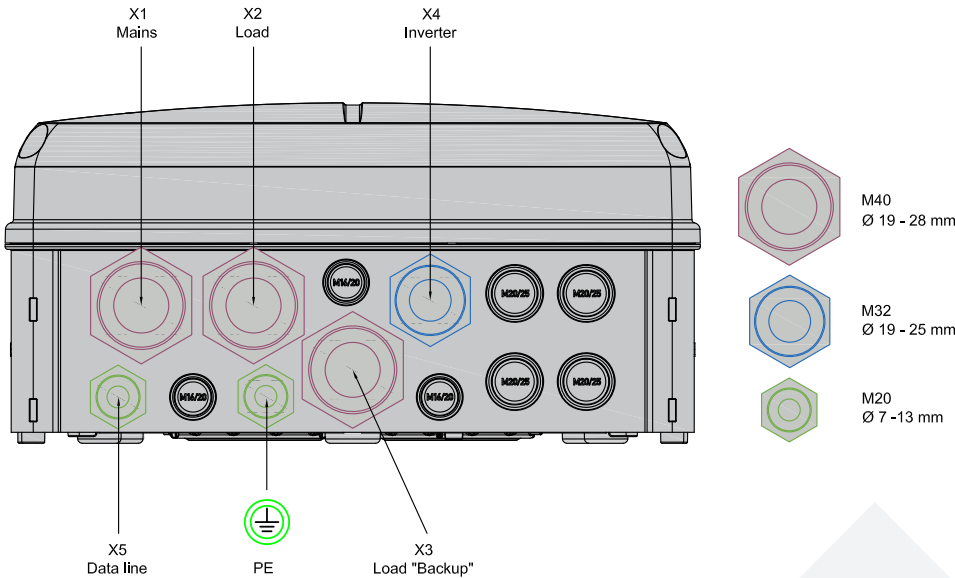
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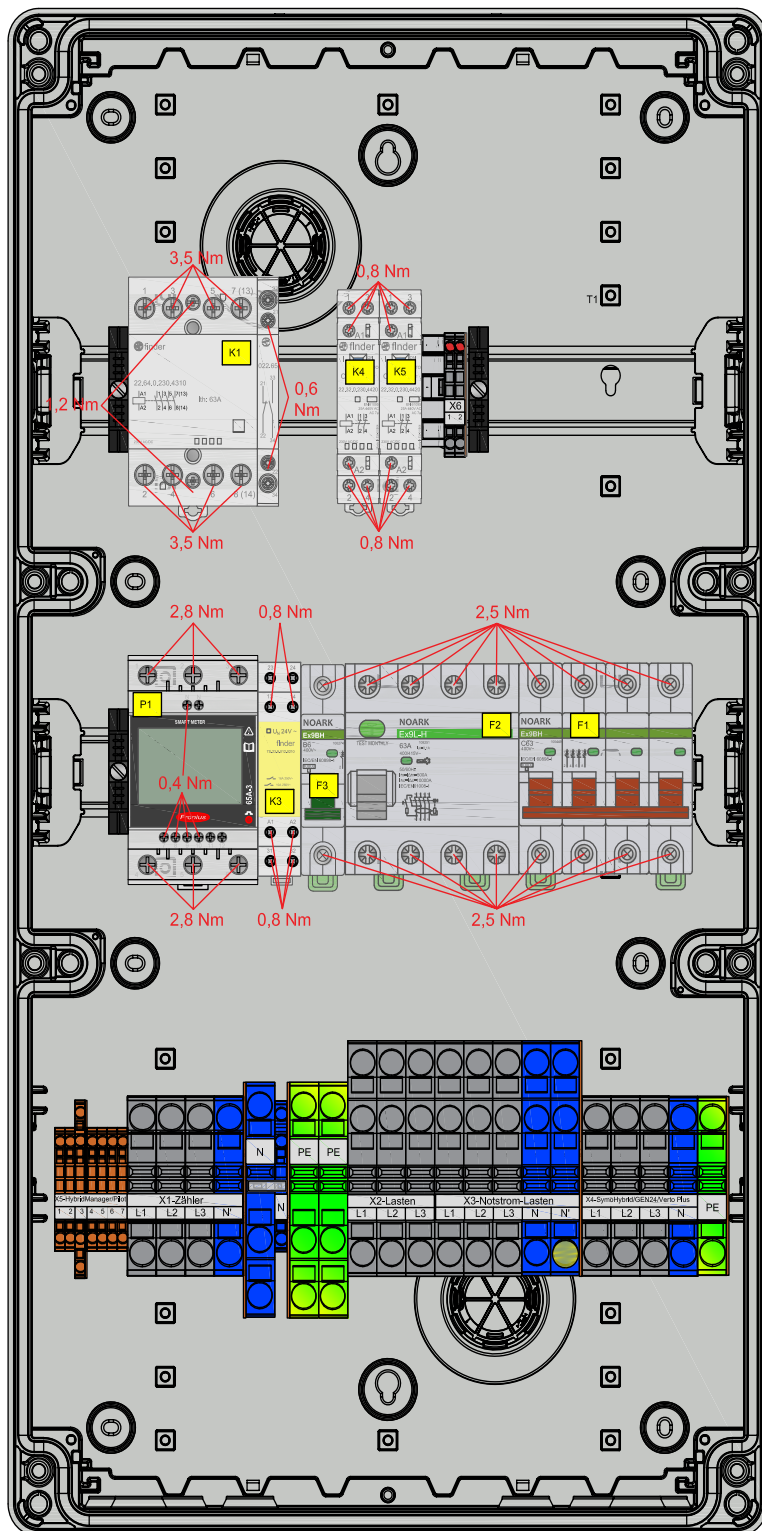
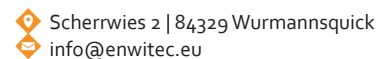
CABLE ENTRY AND CONNECTIONS



Cable gland	Terminal strip	Clamping range [mm]	Strand type copper	max. cross-section [mm²]	Stripping length [mm]
 M40	X1 - Mains	19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
 M40	X2 - Load	19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
 M40	X3 - Load "Backup"	19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
 M32	X4 - Fronius inverter	19 - 25	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
 M20	X5 - Data line	7 - 13	solid finely stranded finely stranded with ferrule	2,5 2,5 1,5	9 - 11
 M20	PE - potential equalisation	7 - 13	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20

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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 +/- 5%
Max. prospective short-circuit current	[kA]	10
Permitted net shape		TN-C/S/TT/TN-S
Mains disconnection		all-pole or three-pole
Max. mains-side back-up fuse	[A]	63
Max. thermal throughput $t_a = 40^\circ\text{C}$	[kW]	35
Standby losses, approx.	[W]	14

CIRCUIT BREAKERS AND RESIDUAL CURRENT CIRCUIT BREAKERS		
F1	Verto Plus	MCB[A] 4C63
F2	Verto Plus	RCD[A] Type A - selective, 63/0.1
F3	Mains" control circuit	[A] B6

CONTACTORS (IEC/EN 61095; IEC/EN60947-1; IEC 60947-5-1)		
K1	Mains disconnection	AC1 [A] 63
K4/K5	Earthing device	AC1 [A] 25
K3	Communication	AC1 [A] 10
K1/K4/K5	Control voltage	[V] 24
K3	Control voltage	[V] 12
Hum-free		•

ENERGY COUNTERS		
Manufacturer		Fronius
Type		TS65A-3

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

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TECHNICAL DATA

CONFIGURATION Mains disconnection using plug-in connectors (included in the scope of delivery)		• applicable / - not applicable
THREE-POLE		
X1 - plugged between N-N'	16(25) mm ²	
X6 - not plugged in	1.5(2.5) mm ²	
ALLPOLIG		
X3 - plugged between N-N'	16(25) mm ²	
X6 - plugged between 1-2	1.5(2.5) mm ²	

GENERAL		
Dimensions WxHxD (without screw connections)	[mm]	315 x 600 x 155
Weight, approx.	[kg]	7,6
Operating temperature range	[°C]	-5...+35
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) _{t₂₀} = 40°C		30
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

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