

# DATA SHEET

ITEM NO. 10019827

Mains switch box

Power Backup 63 VERTO PLUS IP EU

Designation	POWER Backup 63 VERTO PLUS IP EU
Application	For the Fronius Verto Plus "Full Backup" system
Region	EU 25 (excluding Germany and Italy)
Network disconnection	All-pole or three-pole disconnection (initially configurable using plug-in bridges)
Net shape	3PH 230/400V - TN-C/TN-S or TT networks; <b>NO</b> TN-C network in the customer's system!
Hybrid inverter	VERTO PLUS 15.0/17.5/20.0/25.0/30.0/33.3
Control & Monitoring	Fronius Smart Meter IP

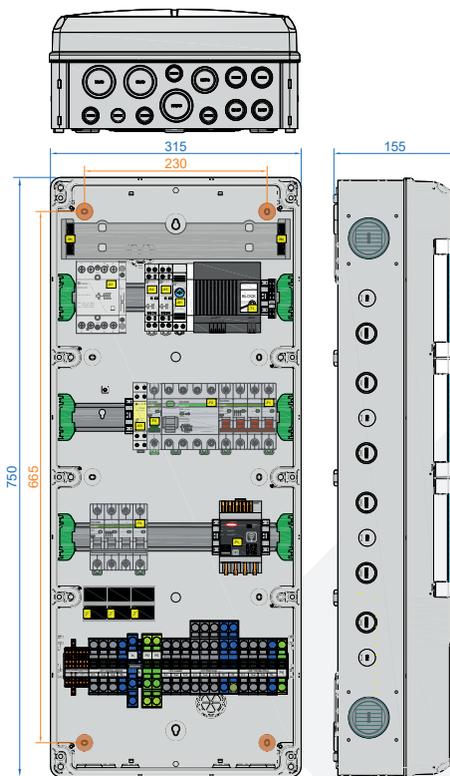
All values in [mm]

Dimensions „blue“  
Fastening points „orange“

### Minimum distances

above	200
below	200
lateral	200
front	800

Internal layout and components may vary depending on the variant!



For other languages, please scan the QR code!

## SCOPE OF DELIVERY

Number	Designation	Number	Designation
1	Mains switch box	3	Cable gland M40 incl. lock nut
1	Manual	1	Cable gland M32 incl. lock nut
1	Operating instructions Fronius Smart Meter	1	Cable gland M25 incl. lock nut
1	Operating instructions for power supply unit	2	Cable gland M20 incl. lock nut
1	Circuit diagram DIN A3	1 set	Jumpers (for mains isolation configuration)
1 set	Cover caps for fastening screws	1	Emergency power sticker Fronius
1	Split mould insert GFD 25/01/060	1	Warning sticker "Dangerous voltage"

Status: (a)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved. Despite careful processing, all information is provided without guarantee. Liability is excluded.

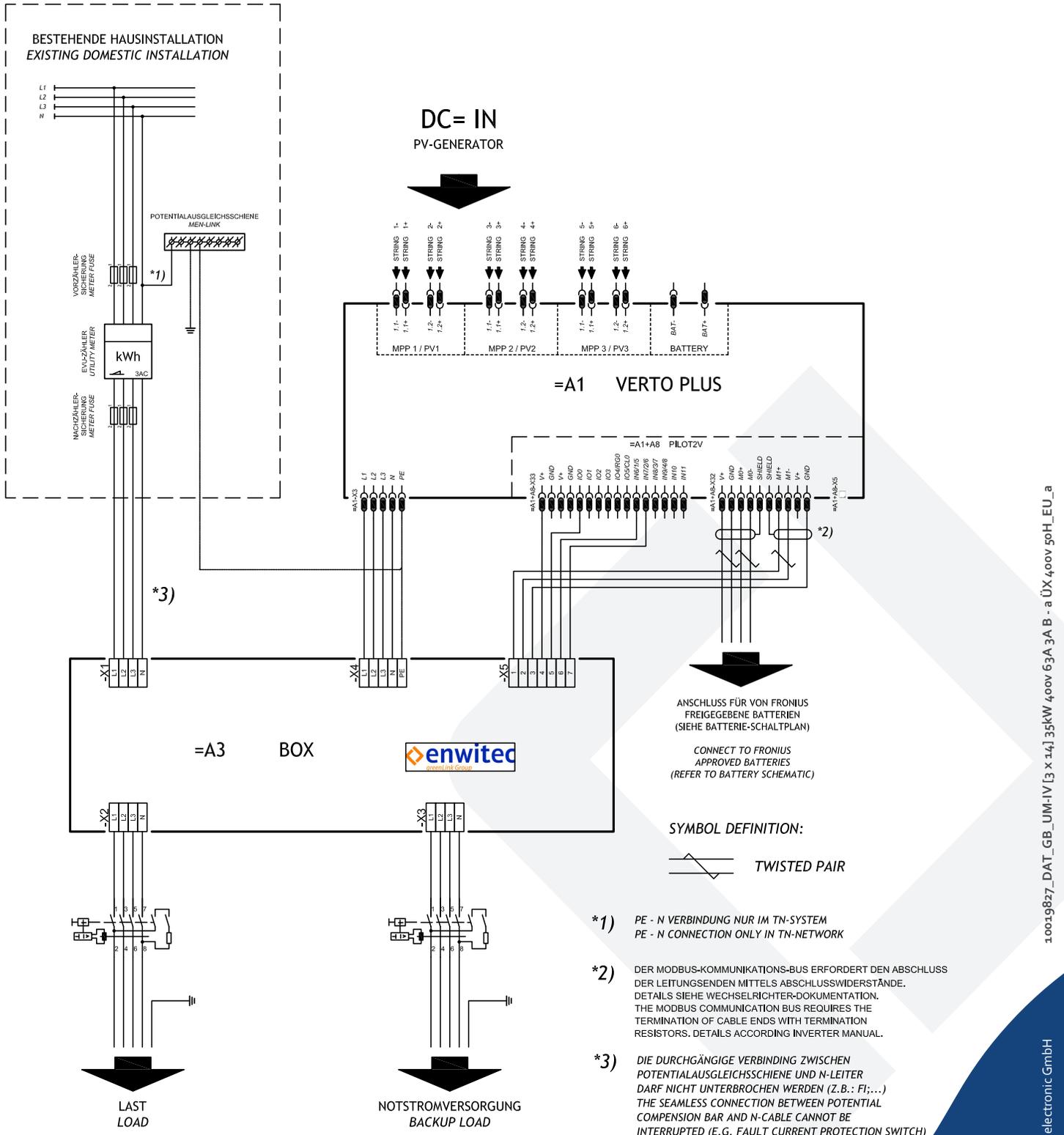
# DATA SHEET

ITEM NO. 10019827

Mains switch box

Power Backup 63 VERTO PLUS IP EU

## WIRING ENVIRONMENT VERTO PLUS



10019827\_DAT\_GB\_UM-IV [3 x 14] 35kW 400v 63A 3A - a ÜX 400v 50H\_EU\_a

Status: (a)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved. Despite careful processing, all information is provided without guarantee. Liability is excluded.

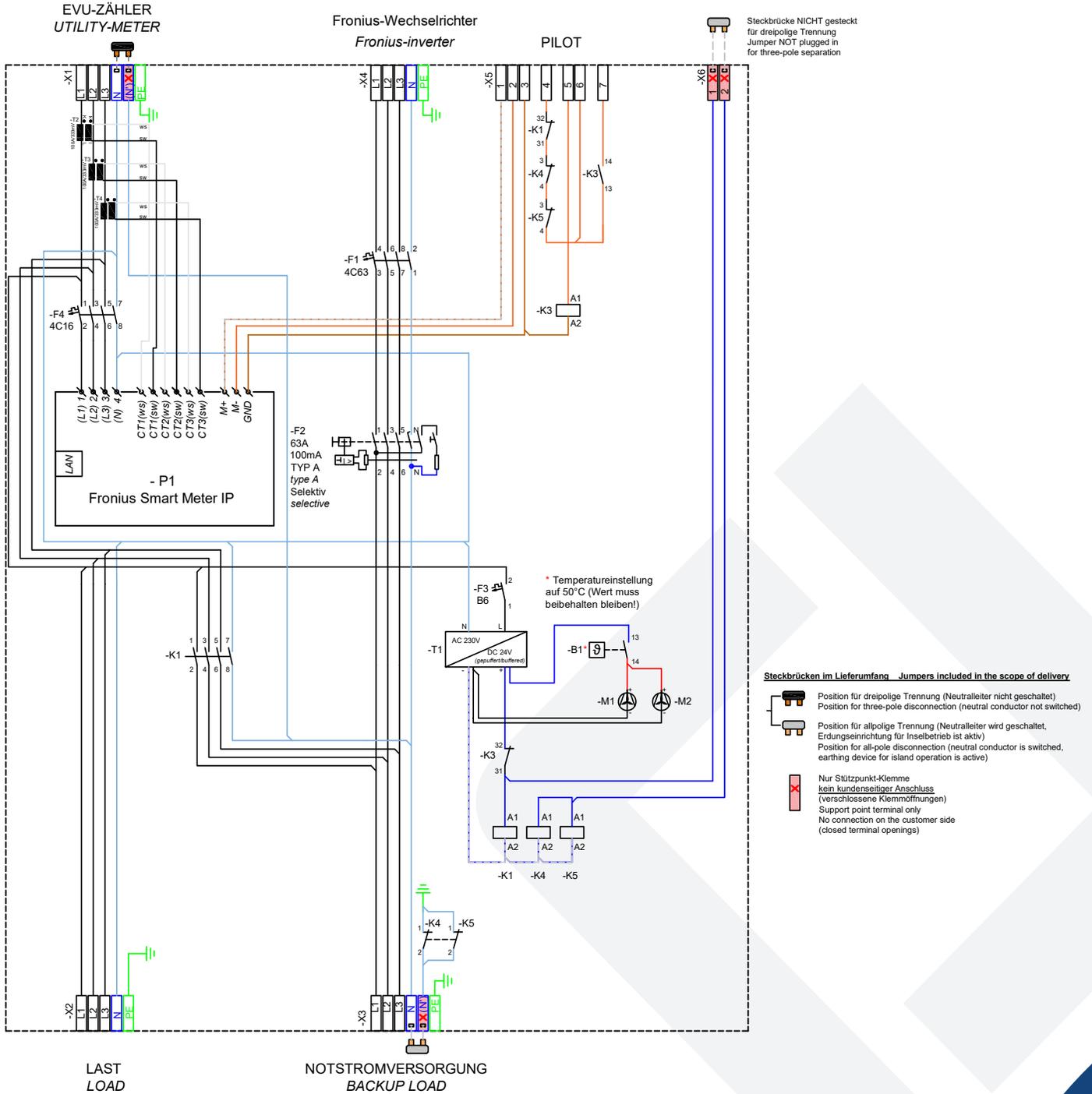
# DATA SHEET

ITEM NO. 10019827

Mains switch box

Power Backup 63 VERTO PLUS IP EU

## INTERNAL WIRING



10019827\_DAT\_GB\_UM-IV [3 x 14] 35kW 400V 63A B - a ÜX 400V 50H\_EU\_a

Status: (a)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved.  
Despite careful processing, all information is provided without guarantee. Liability is excluded.

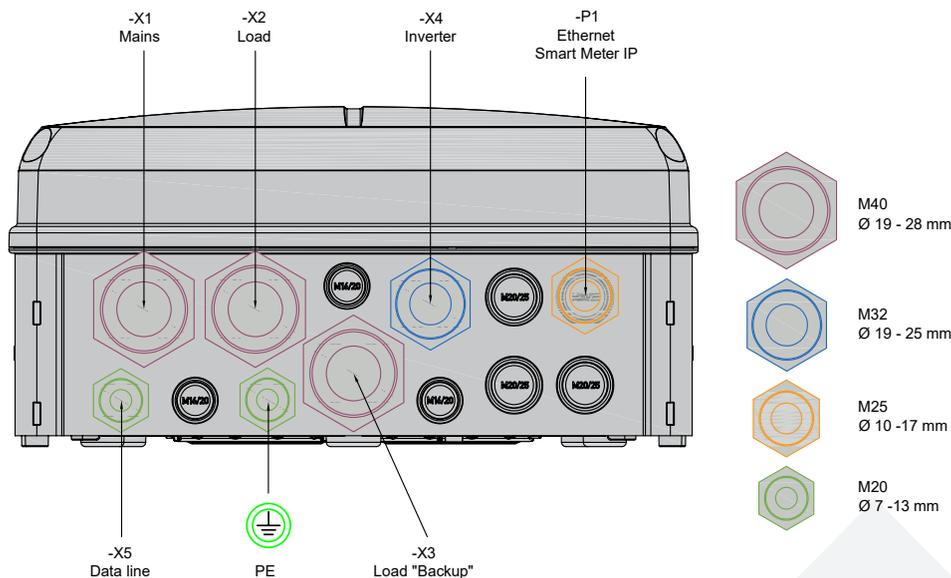
# DATA SHEET

ITEM NO. 10019827

Mains switch box

Power Backup 63 VERTO PLUS IP EU

## CABLE ENTRY AND CONNECTIONS



Cable gland	Terminal strip	Clamping range [mm]	Wire type	maximum cross-section [mm <sup>2</sup> ]	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
M25	-P1 - Ethernet Fronius Smart Meter IP	split seal insert for RF45 plug	according to Fronius specifications		
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

Status: (a)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved. Despite careful processing, all information is provided without guarantee. Liability is excluded.



# DATA SHEET

ITEM NO. 10019827

Mains switch box

Power Backup 63 VERTO PLUS IP EU

## TECHNICAL DATA

NOMINAL VALUES		• applicable / - not applicable
Rated voltage	[V]	3PH - 230/400
Rated insulation voltage	[V]	400
Operating frequency	[Hz]	50 ± 5%
Rated short-time current resistance $I_{cw}$	[N/A]	10
Permissible net shape		TN-C/S/TT/TN-S
Mains disconnection		all-pole or three-pole
Max. mains-side backup fuse	[A]	63
Max. thermal throughput $t_a = 35^\circ\text{C}$	[kW]	35
Standby losses, approx.	[W]	16

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	MCB[A] B6
F4	Voltage measurement Smart meter	MCB[A] 4C16

CONTACTOR (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		•

FRT SUPPORT		
Power supply unit (buffered)	[VDC]	24

Status: (a)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved. Despite careful processing, all information is provided without guarantee. Liability is excluded.

# DATA SHEET

ITEM NO. 10019827

Mains switch box

Power Backup 63 VERTO PLUS IP EU

## TECHNICAL DATA

ENERGY COUNTERS	• applicable / - not applicable
Manufacturer	Fronius
Type	IP

CURRENT TRANSFORMER	
Accuracy class	1
Primary current	[A] 100

CONFIGURATION OF POWER DISCONNECTION BY MEANS OF PLUG-IN BRIDGES (included in delivery)		
<b>THREE-POLE</b>		
X1 - plugged between N-N'	16(25) mm <sup>2</sup>	
X6 - not plugged in	1.5(2.5) mm <sup>2</sup>	
<b>ALL-POLE</b>		
X3 - plugged between N-N'	16(25) mm <sup>2</sup>	
X6 - plugged between 1-2	1.5(2.5) mm <sup>2</sup>	

10019827\_DAT\_GB\_UM-IV [3 x 14] 35kW 400V 63A 3A B - a ÜX 400V 50H\_EU\_a

Status: (a)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved. Despite careful processing, all information is provided without guarantee. Liability is excluded.

# DATA SHEET

ITEM NO. 10019827

Mains switch box

Power Backup 63 VERTO PLUS IP EU

## 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...+35
Temperature - transport/storage (24 hours at 70°C)	[°C]	-25...+55
Humidity - condensing permitted		-
Humidity - permissible range	[%]	5...60
Degree of soiling		2
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529)		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
Type of installation		wall mounting
Closure type		without tools

## MISCELLANEOUS

Tariff number		85371098
---------------	--	----------

10019827\_DAT\_GB\_UM-IV [3 x 14] 35kW 400V 63A 3A B - a ÜX 400V 50H\_EU\_a

Status: (a)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved. Despite careful processing, all information is provided without guarantee. Liability is excluded.