Technical Specifications Combi 2.0 – Single-Phase Energy Storage System

	EUE2-B30BL102	EUE2-B36BL102	EUE2-B46BL102	EUE2-B50BL102	EUE2-B60BL102
PV input					
Absolute maximum voltage [DC V]	580				
MPPT voltage range [DC V]	90 - 520	90 - 520	120 - 520	120 - 520	120 - 520
Max. DC input power [kW]	5	5,5	8	8	8
Turn-on voltage [DC V]	120				
Nominal operating voltage [DC V]	350				
Max. input current [DC A]	15/15				
Max. regenerative current of the inverter into the field [DC A]	0				
Short-circuit current PV [DC A]	22.5/22.5				
Number of MPPT trackers	2				
Number of strings per MPPT tracker	1				
Battery model					
Battery capacity [kWh]	Li-ion 10,24				
Nominal voltage of the battery [DC V]	102.4				
Battery voltage range voltage range [DC V]	86.4 – 116.8				
Max. charging/discharge current [DC A]	72	72	120	120	120
Cycle life	6000				
AC input/output					
Nominal power output [kW]	3	3.6	4.6	5	6
Nominal apparent power to the network [kVA]	3.3	4	4.6	5.5	6.6
Max. apparent power to the network [kVA]	3.3	4	4.6	5.5	6.6
Max. apparent power from the network [kVA]	3.3	4	4.6	5.5	6.6
Nominal voltage [AC V]	L/N/PE 220/230				
Nominal frequency [Hz]	50/60				
AC nominal current to the network [AC V]	13.6/13	16.4/15.7	20.9/20	22.7/21.7	27.2/26.1
Max. output current [AC A]	15.1	18.2	23.2	25.2	30
Max. current from the network [AC A]	20.5	23.2	25	30	30
Inrush current [AC A]	20.5	23.2	25	30	30
Max. output residual current [AC A]	20.5	23.2	25	30	30
AC output maximum output overcurrent protection [AC A]	21.5	24.2	26	31	31
AC input power factor	> 0.99 (leading 0.8 - trailing 0.8)				
AC output power factor	> 0.99 (Leading 0.8 - trailing 0.8)				
Distortion factor (THDi)	< 3 %				
EPS output (with battery)					
Max. output power [kW]	3	3.6	4.6	5	6
Nominal apparent power [kVA]	3.3	4	4.6	5.5	6.6
Max. apparent power [kVA]	3.3	4	4.6	5.5	6.6
Nominal voltage [AC V]	L/N/PE 220/230				
Nominal frequency [Hz]	50/60				
Max. output current [AC A]	20.5	23.2	25	30	30
Inrush current [AC A]	20.5	23.2	25	30	30
Max. output residual current [AC A]	20.5	23.2	25	30	30
EPS output maximum output overcurrent protection [AC A]	20.5	23.2	25	30	30

	EUE2-B30BL102	EUE2-B36BL102	EUE2-B46BL102	EUE2-B50BL102	EUE2-B60BL102
Switching time [ms]	< 10				
Distortion factor (THDv) for linear loads [%]	< 3 %				
Power factor	> 0.99 (leading 0.8 - trailing 0.8)				
Efficiency factor					
PV max. efficiency factor [%]	97.50 %				
PV Europe efficiency factor [%]	96.90 %				
PV max. MPPT efficiency factor [%]	99.90 %				
Battery charging via PV max. efficiency factor [%]	96 %				
Battery charging efficiency factor [%]	95.30 %				
Protection					
Overvoltage/undervoltage protection	Yes				
DD isolation protection	Yes				
DC input monitoring	Yes				
Residual current detection	Yes				
Anti-islanding device	Yes				
Overload protection	Yes				
Battery input reverse polarity protection	Yes				
PV reverse polarity protection	Yes				
Overvoltage protection	Yes				
Overheat protection	Yes				
General Data					
Dimensions (W x D x H) [mm]	540 x 1640 x 240				
Packaging dimensions (W x D x H) [mm]	666 x 648 x 425 mm				
Net weight [kg]	24 kg + 44 kg x 2				
Gross weight [kg]	31 kg + 51 kg x 2				
Operating temperature [°C]	-25 ℃ to +60 ℃				
Relative air humidity [%]	5 % - 95 %				
Elevation [m]	3000				
Protection against penetration by dust and moisture	IP66				
Cooling system	Natural				
Inverter topology	Non-isolated				
Overvoltage category	II (DC), III (AC)				
Protection class	Class I				
Active anti-islanding method	Frequency shift				
Human interface	LED/APP				
BMS communications interface	RS485/CAN				
Counter communications interface	RS485				
Noise emission [dB]	< 41dB				
Energy consumption in standby mode [W]	< 30 W				
Safety and Approvals					
Safety	IEC/EN 62109-1/-2 IEC 61619 UN 38.3, MSDS, IEC 63056				
EMC	EN IEC 61000-6-1/-3				
Country	EN 50549-1, EN 50549-10, CEI 0-21, UNE 217001, UNE 217002, RD 244, RD 647, RD 1699, NTS type A, UTE C15-712-1, C10/11				