



Q.HOME+ ESS HYB-G3-1P

THE MODULAR AND SCALABLE
ENERGY STORAGE SOLUTION

Q.VOLT HYB-G3-1P

Q.SAVE MATEBOX-G3-1P

Q.SAVE BAT-G3



EASY INSTALLATION 1 PERSON IN 30 MINUTES

Modular type setting for faster and easier installation



SUPPORTS 150% OVERSIZED PV POWER

Excess energy to battery



FAST CHARGING AND HIGH POWER DISCHARGE

Max. 30A charging and discharge current



REMOTE CONTROL AND UPGRADING FUNCTION

External control communication interface



WORKING UNDER EXTREMELY COLD CONDITIONS

Working in full load under extreme cold temperature of -35°C



ON AND OFF GRID PARALLEL USE

Inverter on and off grid parallel to support higher power loads



UNBALANCED OUTPUT SUPPORTED

Prevent voltage imbalance when using high-power electrical appliances



SHADOW FIX FUNCTION FOR OPTIMIZED YIELD

The inverter is able to find the best operating point to maximize the power output



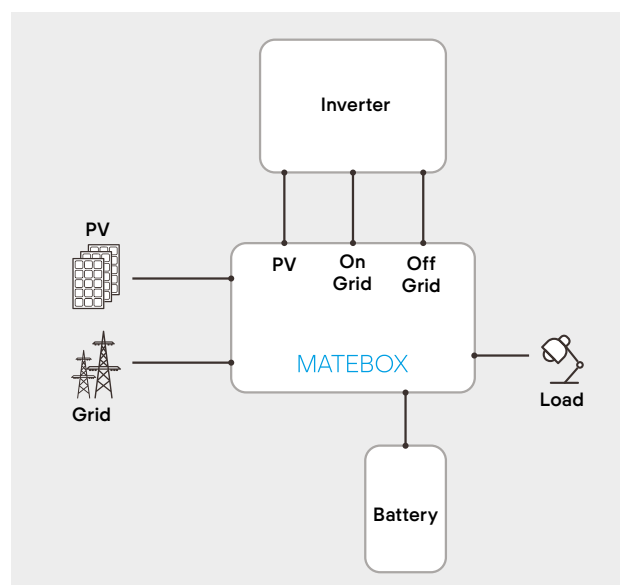


Q.VOLT HYB-G3-1P

	Q.VOLT HYB-G3 X.X kW 1P		
	3.7	5.0	6.0
INPUT (DC)			
Max. recommended PV power [W]	5500	7500	9000
Max. DC voltage [V]		600	
Nominal DC operating voltage [V]		360	
Max. input current (input A / input B) [A]		14 / 14	
Max. short circuit current (input A / input B) [A]		16 / 16	
MPPT voltage range [V]		70 - 550	
Start operating voltage [V]		90	
No. of MPP trackers / Strings per MPPT tracker		2 / 1	
INPUT AC			
Max. apparent AC power [VA]	7360	9200	9200
Max. AC current [A]	32	40	40
Nominal grid voltage (AC voltage range) [V]		220 / 230 / 240 (180 - 270)	
Nominal grid frequency / range [Hz]		50 / 60	
OUTPUT AC			
Nominal AC power [VA]	3680	5000	6000
Max. apparent AC power [VA]	3680	5500 (4600 for DE)	6600
Nominal grid voltage (AC voltage range) [V]		220 / 230 / 240 (180 - 270)	
Nominal grid frequency / range [Hz]		50 / 60	
Max. AC current [A]	16	23.9 (20 for DE)	28.6
Displacement power factor		0.8 leading 0.8 lagging	
THDi, rated power [%]		<2	
OUTPUT DC (BATTERY)			
Battery type		Li-ion (LFP)	
Battery voltage range [V]		80 - 480	
Max. continuous charge / discharge current [A]		30	
Communication interfaces		CAN / RS485	
Reverse connect protection		Yes	
OFF – GRID OUTPUT (WITH BATTERY)			
Max. continuous apparent power [VA]	3680	5000	6000
Rated voltage [V _{AC}], Frequency [Hz]		230, 50 / 60	
Max. continuous current [A]	16	21.7	26.1
Peak apparent power (rated) [%], Duration [s]		120% overload, 600	
Changeover time [ms]		internal switch <10, external switch <100	
THDv, linear Load [%]		<2	
EFFICIENCY			
MPPT efficiency [%]		99.9	
Euro efficiency [%]		97.0	
Max. efficiency [%]		97.6	
Battery charge / discharge efficiency [%]		97.0 / 97.0	
POWER CONSUMPTION			
Standby consumption (Night) [W]		<3	
STANDARD			
Safety		IEC 62109-1 / IEC 62109-2	
EMC		EN 61000-6-1:2007 / EN 61000-6-2:2005 / EN 61000-6-3 / EN 61000-6-4 / EN 61000-3-2 / EN 61000-3-3 / EN 61000-3-11 / EN 61000-3-12	
Certification		VDE 0126-1-1 A1:2012 / VDE 4105:2018 / G99 / G98 / EN 50549 / CEI 0-21 / RD 661 / RD 1699 / UNE 206007-1 / VDE 0216 / VFR 2019	
ENVIRONMENT LIMIT			
Degree of protection (according to IEC 60529)		IP65	
Operating temperature range [°C]		-35 - +60 °C (derating at +45 °C)	
Max. operation altitude [m]		<3000	
Humidity [%]		0 - 100 (no condensing)	
Storage temperature [°C]		-40 - +70 °C	
Typical noise emission [dB]		<30	
DIMENSION AND WEIGHT			
Dimensions (L x W x H) [mm]		482 x 181 x 417	
Weight [kg]		22	
Cooling concept		Natural	
Topology		Non-isolated	
Communication interfaces		CT / Meter / External control RS485 / Indoor LCD / Pocket series (optional) / USB Upgrade	
LCD display		Backlight 20 x 4 character	
Standard warranty [a]		10	

Q.SAVE MATEBOX-G3-1P

For the new Q.HOME+ESS HYB-G3-1P, we get rid of the complicated wiring work by laying all the wires in the Q.SAVE MATEBOX-G3-1P. All you need to do is just to install one module on top of another, and connect all the cables which are already well sorted in the Q.SAVE MATEBOX-G3-1P in different ports.



PV	
Max. input voltage [V _{DC}]	600
Max. short circuit current [A]	16/16
No. of MPP trackers	2
BATTERY	
Battery voltage range [V]	80 - 480
Max. charge / discharge current [A]	30
ON-GRID	
Rated voltage [V _{AC}], frequency [Hz]	220/230/240, 50/60
Max. apparent on-grid input / output power [VA]	7500
Max. on-grid current [A]	32.6
OFF-GRID	
Rated voltage [V _{AC}], frequency [Hz]	230, 50/60
Rated power [VA]	7500
Rated current [A]	32.6
GRID	
Rated grid voltage [V _{AC}], frequency [Hz]	220/230/240, 50/60
Max. input current [A]	60
LOAD	
Rated voltage [V _{AC}], frequency [Hz]	220/230/240, 50/60
Max. current [A]	60
ENVIRONMENT LIMIT	
IP class	IP54
Protection class	Class I
Operating temperature range [°C]	-35 - +60 (derating at + 45)
Storage temperature [°C]	-40 - +70
Humidity [%]	0 - 100 (condensing)
Altitude [m]	<3000
Over voltage category	III (AC), II (DC)
OTHER	
Cooling concept	Natural
DIMENSION AND WEIGHT	
Dimensions (L x W x H) [mm]	482 x 185 x 437
Net weight [kg]	10

Q.SAVE BAT-G3

	Q.SAVE-G3 X.X kWh				
	3.0	6.0	9.0	12.0	
Nominal Voltage [V]	102.4	204.8	307.2	409.6	
Operating voltage range [V]	90 - 116	180 - 232	270 - 348	360 - 464	
Total energy [kWh]	3.1	6.1	9.2	12.3	
Usable energy [kWh]	2.8	5.5	8.3	11.0	
Rated Capacity [Ah]	30				
Standard power [kW]	2.55	5.1	7.65	10.2	
Max power [kW]	3.1	6.1	9.2	12.3	
Recommend charge/discharge current [A]	25				
Maxcharge / discharge current [A]	30				
Faradic charge efficiency [%]	99				
Battery roundtrip efficiency [%]	95				
Cycle life [90% DOD]	6000 Cycles				
Expected life time / Warranty [year]	10				
Available charge / discharge temperature range [°C]	-30 to 50				
Storage temperature [°C]	-20 to 55 (3 months) 0 to 40 (1 year)				
Humidity [%]	0 - 100				
Altitude [m]	Below 4000				
Protection	IP67				
System to Inverter	RS485 / CAN2.0				
Battery to battery / BMS	CAN2.0				
Master LED indicator	4 LED (25%, 50%, 75%, 100%), 1 LED (working mode)				
System Switch (on / off)	Button × 1 + Breaker × 1				
Safety Certificate	CE / TÜV SÜD / IEC62619 / IEC62040 / IEC60529				
EMC	61000-6-1/2/3, 61000-3-2/3				
UN number	UN 3840				
Hazardous materials classification	Class 9				
Transport testing requirement	UN38.3				
Dimensions (L×W×H) [mm]	482.5 × 167 × 705	482.5 × 167 × 1176.5	482.5 × 167 × 1648	L: 482.5 × 167 × 1176.5 R: 482.5 × 167 × 591.5	L: 482.5 × 167 × 1176.5 R: 482.5 × 167 × 1023
Weight [kg]	44.5	79	113.5	L: 79, R: 38	L: 79, R: 72.5
Configuration (BMS + Batteries)					

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

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