



# Q.HOME+ ESS HYB-G3-3P

THE MODULAR AND SCALABLE  
ENERGY STORAGE SOLUTION

**Q.VOLT HYB-G3-3P**

**Q.SAVE MATEBOX-G3-3P**

**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  $-35^{\circ}\text{C}$



**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



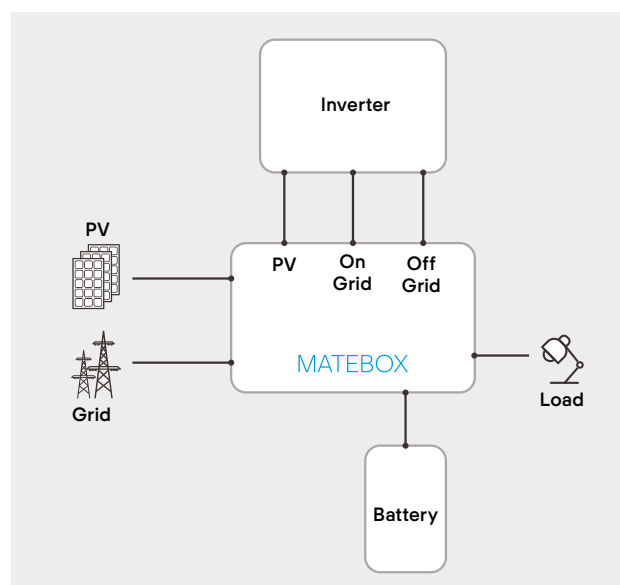


# Q.VOLT HYB-G3-3P

	Q.VOLT HYB-G3 X.X kW 3P				
	6.0	8.0	10.0	12.0	15.0
<b>INPUT (DC)</b>					
Max. recommended PV power [W]	10000	12000	15000	18000	18000
Max. DC voltage [V]	1000				
Nominal DC operating voltage [V]	630				
Max. input current (input A / input B) [A]	14/14	26/14	26/14	26/14	26/14
Max. short circuit current (input A / input B) [A]	16/16	30/16	30/16	30/16	30/16
MPPT voltage range [V]	180 - 950				
Start operating voltage[V]	200				
No. of MPP trackers / Strings per MPP tracker	2 (1/1)	2 (2/1)	2 (2/1)	2 (2/1)	2 (2/1)
<b>INPUT AC</b>					
Max. apparent AC power [VA]	12000	16000	20000	20000	20000
Max. AC current [A]	19.3	25.8	32.0	32.0	32.0
Nominal grid voltage (AC voltage range) [V]	415/240; 400/230; 380/220				
Nominal grid Frequency / range [Hz]	50/60				
<b>OUTPUT AC</b>					
Nominal AC power [VA]	6000	8000	10000	12000	15000
Max. apparent AC power [VA]	6600	8800	11000	13200	15000
Nominal grid voltage (AC voltage range) [V]	415/240; 400/230; 380/220				
Nominal grid frequency / range [Hz]	50/60				
Nominal AC current [A]	8.7	11.6	14.5	17.5	21.8
Max. AC current [A]	9.7	12.9	16.1	19.3	24.1
Displacement power factor	0.8 leading 0.8 lagging				
THDi, rated power [%]	<3				
<b>OUTPUT DC (BATTERY)</b>					
Battery type	Li-ion (LFP)				
Battery voltage range [V]	180 - 650				
Recommended battery voltage [V]	400				
Max. continuous charge / discharge current [A]	30				
Communication interfaces	CAN/RS485				
Reverse connect protection	Yes				
<b>OFF – GRID OUTPUT (WITH BATTERY)</b>					
Max. continuous apparent power [VA]	6000	8000	10000	12000	15000
Rated voltage [V <sub>AC</sub> ], Frequency [Hz]	400/230, 50/60				
Max. continuous current [A]	8.7	11.6	14.5	17.5	21.8
Peak apparent power [VA], Duration [s]	9000, 60	12000, 60	15000, 60	15000, 60	16500, 60
Changeover time [ms]	<10				
THDv, linear Load [%]	<3				
<b>EFFICIENCY</b>					
MPPT efficiency [%]	99.9				
Euro efficiency [%]	97.7				
Max. efficiency [%]	98.0				
Battery charge / discharge efficiency [%]	98.5/97.0				
<b>POWER CONSUMPTION</b>					
Standby consumption (Night) [W]	<20 for hot standby, <3 for cold standby				
<b>STANDARD</b>					
Safety	IEC62109-1/IEC62109-2				
EMC	EN61000-6-1/EN61000-6-2/EN61000-6-3				
Certification	VDE0126-1-1 A1:2012/VDE-AR-N4105:2018/ G98/G99/EN50549/CEI0-21				
<b>ENVIRONMENT LIMIT</b>					
Degree of protection (according to IEC60529)	IP65				
Operating temperature range [°C]	-35 - +60 (derating at +45, charge derating at +35)				
Max. operation altitude [m]	<3000				
Humidity [%]	0 - 100 (condensing)				
Storage temperature [°C]	-35 - +60				
Typical noise emission [dB]	40	40	40	60	60
<b>DIMENSION AND WEIGHT</b>					
Dimensions (L x W x H) [mm]	503 x 199 x 503				
Weight [kg]	30				
Cooling concept	Natural	Natural	Natural	Fan	Fan
Topology	Non-isolated				
Communication interfaces	Meter/CT/ External control RS485/Pocket series (optional)/USB Upgrade				
LCD display	Backlight 20 x 4 character				
Standard warranty [a]	10				



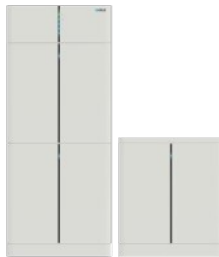
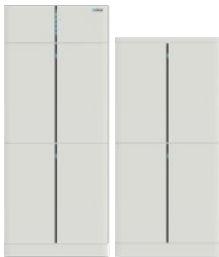
## Q.SAVE MATEBOX-G3-3P

For the new Q.HOME+ ESS HYB-G3-3P, we get rid of the complicated wiring work by laying all the wires in the Q.SAVE MATEBOX-G3-3P. 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-G3-3P in different ports.



<b>PV</b>	
Max. input voltage [V <sub>DC</sub> ]	1000
Max. short circuit current [A]	30/16
No. of MPP trackers	2
<b>BATTERY</b>	
Battery voltage range [V]	80 - 480
Max. charge / discharge current [A]	30
<b>ON-GRID</b>	
Rated voltage [V <sub>AC</sub> ], frequency [Hz]	415 / 240; 400 / 230; 380 / 220, 50 / 60
Max. apparent on-grid input / output power [VA]	20000 / 16500
Max. on-grid current [A]	63
<b>OFF-GRID</b>	
Rated voltage [V <sub>AC</sub> ], frequency [Hz]	415 / 240; 400 / 230; 380 / 220, 50 / 60
Rated power [VA]	15000
Rated current [A]	24.1
<b>GRID</b>	
Rated grid voltage [V <sub>AC</sub> ], frequency [Hz]	415 / 240; 400 / 230; 380 / 220, 50 / 60
Max. input current [A]	63
<b>LOAD</b>	
Rated voltage [V <sub>AC</sub> ], frequency [Hz]	415 / 240; 400 / 230; 380 / 220, 50 / 60
Max. current [A]	63
<b>ENVIRONMENT LIMIT</b>	
IP class	IP54
Protection class	Class I
Operating temperature range [°C]	-25 - +60 (derating at + 45)
Storage temperature [°C]	-40 - +70
Humidity [%]	0 - 100 (condensing)
Altitude [m]	<3000
Over voltage category	III (AC), II (DC)
<b>OTHER</b>	
Cooling concept	Natural
<b>DIMENSION AND WEIGHT</b>	
Dimensions (L × W × H) [mm]	551 × 204.5 × 512
Net weight [kg]	14

# Q.SAVE BAT-G3

	Q.SAVE-G3 X.X kWh			
	6.0	9.0		12.0
Nominal Voltage [V]	204.8	307.2		409.6
Operating voltage range [V]	180 - 232	270 - 348		360 - 464
Total energy [kWh]	6.1	9.2		12.3
Usable energy [kWh]	5.5	8.3		11.0
Rated Capacity [Ah]		30		
Standard power [kW]	5.1	7.65		10.2
Max power [kW]	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 [a]		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 × 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]	79	113.5	L: 79, R: 38	L: 79, R: 72.5
Configuration (BMS + Batteries)		 "I" type	 "L" type	

**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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