Q.HOME+ ESS HYB-G3-3P (-D)



Energy Storage Solution

Hybrid Inverter 5.0/6.0/8.0/10.0/12.0/15.0 kW | 6.0/9.0/12.0 kWh Up to 98.0% Conversion Efficiency

MODEL Q.VOLT HYB-G3-3P (-D) | Q.SAVE MATEBOX-G3-3P | Q.SAVE-G3



Q.SAVE MATEBOX-G3-3P



Q.VOLT HYB-G3-3P (-D)**

Quick and easy installation

Modular type setting for faster and easier installation.



Supports 150% oversized PV power

Two MPPTs with wide voltage range. Excess energy to Battery.



Fast charging and high power discharge

Max. 30 A charge and discharge current.



Remote control and upgrading function

External control communication interface.



Working under extremely cold conditions

Q.SAVE-G3

Working in full load under extreme cold temperature of $-30\,^{\circ}\text{C}^{\,*}$



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 optimised yield

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

^{*} Battery Heating must be on and SoC must be set up to 20%.

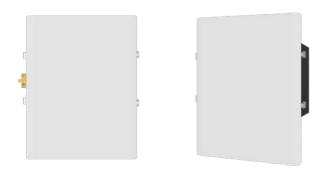
 $[\]ensuremath{^{**}}\xspace$ D variant with integrated DC switch for parallel installation.

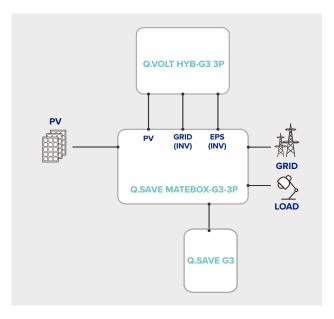
■ Q.VOLT HYB-G3-3P (-D)

	5.0	6.0		YB-G3 X.X k		15.0
	5.0	6.0	8.0	10.0	12.0	15.0
[kWp]	7.5	9	12	15	18	22.5
[V]			1000 (6	630)		
[A]	16 (20)/16 (20)	16 (20)/16 (20)	28 (35)/16 (20)		28 (35)/16 (20)	28 (35)/16 (2
[V]						
	2/A:1, B:1	2/A:1, B:1	2/A:2, B:1	2/A:2, B:1	2/A:2, B:1	2/A:2, B:1
						20
	16.1	19.3			32.0	32.0
[۱۰۱۷]			50/6	50		
FLA /A 1	_	6	0	10	12	15
	5	6			IZ	15
	7.2 (8.1)	8.7 (9.7)			17.5 (19.3)	21.8 (24.1)
[A]	(30)		. ,		, , , , , ,	
			0.8 leading ~	0.8 lagging		
[%]			<3			
[kVA]	5	6	8	10	12	15
[V]						
[Hz]						
[A]	7.2	8.7	11.6	14.5	17.5	21.8
	7.5	9			15	16.5
[%]			<u>\</u>			
50.17				_		
[/0]			97.07	97.0		
			EN 00400 475			
		N 61000 6 1 200			6 2 /FN 61000 6	4 /
						+/
		VDE 4105/EI	N 50549-1/CEI 0-2	1/TOR Erzeuge	r Typ A/PPDS	
					· ·	
			AC (Type II)/E	C (Type II)		
	Over/under vi	oltage protection				
		• .				
	 DC injection 	monitoring	 Anti-islanding pr 	otection	detection	resistance
			Yes (D v	ariant)		
			IP6	5		
			Clas	s I		
[°C]						
[m]						
			· · · · · · · · · · · · · · · · · · ·			
	*OF	*25			- 45	- 45
[aR]	< 35	<35	<35	< 35	<45	<45
F - F						
[mm]			503 × 50			
[mm] [kg]			30			
	Natural	Natural	30 III (AC)/I	I (DC)	Forced	Forced
	Natural convection	Natural convection	30		Forced convection	Forced convection
		convection	30 III (AC)/I Natural convection Non-iso	I (DC) Natural convection lated	convection	convection
		convection E-Meter/WLAN, E	30 III (AC)/I Natural convection Non-iso	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection
		convection E-Meter/WLAN, E	30 III (AC)/I Natural convection Non-iso Ethernet (both with Contact (with adapt	I (DC) Natural convection lated adapter)/USB (ier)/RS485/CA	convection for local upgrade)	convection
[kg]		convection E-Meter/WLAN, E	30 III (AC)/I Natural convection Non-isc Ethernet (both with Contact (with adapt Backlight, 20 ×	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection
		convection E-Meter/WLAN, E	30 III (AC)/I Natural convection Non-iso Ethernet (both with Contact (with adapt Backlight, 20 ×	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection
[kg]	convection	convection E-Meter/WLAN, E	30 III (AC)/I Natural convection Non-isc Ethernet (both with Contact (with adapt Backlight, 20 ×	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection
[kg]	convection	convection E-Meter/WLAN, E	30 III (AC)/I Natural convection Non-iso Ethernet (both with Contact (with adapt Backlight, 20 ×	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection
[kg]	convection	convection E-Meter/WLAN, E	30 III (AC)/I Natural convection Non-iso Ethernet (both with Contact (with adapt Backlight, 20 × 10 99 98	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection
[kg]	convection	convection E-Meter/WLAN, E	30 III (AC)/I Natural convection Non-iso Ethernet (both with Contact (with adapt Backlight, 20 × 10 99 98 § 97	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection
[kg]	convection	convection E-Meter/WLAN, E	30 III (AC)/I Natural convection Non-iso Ethernet (both with Contact (with adapt Backlight, 20 × 10 99 98 § 97	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection
[kg]	convection	convection E-Meter/WLAN, E	30 III (AC)/I Natural convection Non-iso Ethernet (both with Contact (with adapt Backlight, 20 × 10 99 98 § 97	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection /
[kg]	convection	convection E-Meter/WLAN, E	30 III (AC)/I Natural convection Non-iso Ethernet (both with Contact (with adapt Backlight, 20 × 10 99 98 98 97 96	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection
[kg]	convection	convection E-Meter/WLAN, E	Natural convection Non-iso thernet (both with Contact (with adapt Backlight, 20 × 10 99 98 18.1 97 10 95 10	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection /
[kg]	convection	convection E-Meter/WLAN, E	Natural convection Non-iso Ethernet (both with Contact (with adapt Backlight, 20 × 10 99 98 98 97	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection /
[kg]	convection	convection E-Meter/WLAN, E	Natural convection Non-iso thernet (both with Contact (with adapt Backlight, 20 × 10 99 98 18.1 97 10 95 10	I (DC) Natural convection lated adapter)/USB (i	convection for local upgrade)	convection / -8000 -5200
[kg]	convection	convection E-Meter/WLAN, E	Natural convection Non-ison No	Natural convection lated adapter)/USB (ter)/RS485/CA	convection for local upgrade) N 2.0	8000
[kg]	convection	convection E-Meter/WLAN, E	Natural convection Non-iso thernet (both with Contact (with adapt Backlight, 20 × 10 99 98 97 96 99 98 99 99 99 99 99 99 99 99 99 99 99	I (DC) Natural convection lated adapter)/USB (ier)/RS485/CA 4 character	convection for local upgrade)	convection / - 800 - 520
	[V] [A] [V] [KVA] [A] [V] [Hz] [KVA] [M] [M] [M] [M] [M] [M] [M] [M] [M] [M	[M] [A] 16 (20)/16 (20) [V] 2/A:1, B:1 [kVA] 10 [A] 16.1 [M] [Hz] [kVA] 5 [M] [Hz] [A] 7.2 (8:1) [A] [%] [%] [%] [%] [%] [%] [%]	[kWp] 7.5 9 [V] [A] 16 (20)/16 (20) 16 (20)/16 (20) [V] 2 / A:1, B:1 2 / A:1, B:1 [kVA] 10 12 [A] 16.1 19.3 [V] [Hz] [kVA] 5 6 [V] [Hz] [A] 7.2 (8.1) 8.7 (9.7) [A] [KVA] 7.5 9 [S] [ms] [%] EN 61000-6-1 2007 EN 61000-3 VDE 4105/EN Over/under voltage protection Grid protection Origination monitoring	S.0 S.0 S.0 S.0	S.0 S.0	S.0 S.0

■ 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.





Max. short circuit current (input A/input B)	PV		
Max. short circuit current (input A/input B)	Max. input voltage	[V]	1000
Battery voltage range	Max. short circuit current (input A/input B)		30/20
Max. charge / discharge current [A] 30 GRID (INV) Rated voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. on-grid current [A] 24.1 EPS/OFF-GRID (INV) Rated voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. current [A] 24.1 GRID Rated frequency [Hz] 50/60 Max. current [A] 24.1 GRID Rated grid voltage [V] 380/400/415 Rated grid	BATTERY		
Serial Content	Battery voltage range	[V]	80 - 480
Name	Max. charge/discharge current	[A]	30
Rated frequency [Hz] 50/60 Max. on-grid current [A] 24.1 EPS/ OFF-GRID (INV) 380/400/415 Rated of stage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. current [A] 24.1 GRID Rated grid voltage [V] 380/400/415 Rated grid voltage [V] 50/60 Max. input/ output current [A] 63/24.1 LOAD Rated grid voltage [V] 380/400/415 Rated grid voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. input/ output current [A] 63 ENVIRONMENT LIMIT [P54 Protection degree Protection degree [P54 Protection class Operating temperature range [***C] -35 - 460 (derating at +45) Storage temperature [***C] -40 - +70 Relative humidity [***S] 0 -100 (non-condensing) Max. operation altitude [m] 3000	GRID (INV)		
Again Agai	Rated voltage	[V]	380/400/415
### Storage Company	Rated frequency	[Hz]	50/60
Rated voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. current [A] 24.1 GRID Rated grid voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. input/ output current [A] 63/24.1 LOAD Rated grid voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. input/ output current [A] 63 ENVIRONMENT LIMIT [Hz] 50/60 ENVIRONMENT LIMIT [P54 Protection class Class I Operating temperature range [C] -35 +60 (derating at +45) Storage temperature range [C] -40 - +70 Relative humidity [%] 0 - 100 (non-condensing) Max. operation altitude [m] 3000 GENERAL DATA Dimensions (W × H × D) [m] 503 × 652	Max. on-grid current	[A]	24.1
Rated frequency [Hz] 50/60 Max. current [A] 24.1 GRID Rated grid voltage V 380/400/415 Rated frequency [Hz] 50/60 Max. input/ output current [A] 63/24.1 LOAD Rated grid voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. input/ output current [A] 63 Environment Limit Protection degree Environment Limit Protection degree Protection class Class I Operating temperature range [°C] -35 - 460 (derating at +45) Storage temperature range [°C] -40 - +70 Relative humidity [%] 0 - 100 (non-condensing) Max. operation altitude [m] 3000 GENERAL DATA [vg] 14.5 Over voltage category (OVC) [kg] 14.5 Over voltage category (OVC) Natural	EPS/OFF-GRID (INV)		
Max. current [A] 24.1 GRID Rated grid voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. input/output current [A] 63/24.1 LOAD Rated grid voltage V 380/400/415 Rated grid voltage [Hz] 50/60 Max. input/output current [A] 63 ENVIRONMENT LIMIT Protection degree IP54 Protection class Class I Operating temperature range [*C] -35-460 (derating at +45) Storage temperature [*C] -40-+70 Relative humidity [*S] 0-100 (non-condensing) Max. operation altitude [m] 3000 GENERAL DATA Dimensions (W × H × D) [m] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Rated voltage	[V]	380/400/415
Serial State Seri	Rated frequency	[Hz]	50/60
Rated grid voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. input/output current [A] 63/24.1 LOAD Rated grid voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. input/output current [A] 63 ENVIRONMENT LIMIT Protection degree IP54 Protection class Class I Operating temperature range [°C] -35 - +60 (derating at +45) Storage temperature [°C] -40 - +70 Relative humidity [%] 0 - 100 (non-condensing) Max. operation altitude [m] 3000 GENERAL DATA Dimensions (W × H × D) [m] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Max. current	[A]	24.1
Rated frequency [Hz] 50/60 Max. input/output current [A] 63/24.1 LOAD Rated grid voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. input/output current [A] 63 ENVIRONMENT LIMIT Protection degree [P54 Protection class Class I Operating temperature range [°C] -35-+60 (derating at +45) Storage temperature [°C] -40 - +70 Relative humidity [%] 0 - 100 (non-condensing) Max. operation altitude [m] 3000 GENERAL DATA Dimensions (W × H × D) [mm] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	GRID		
Max. input/output current [A] 63/24.1 LOAD Rated grid voltage [V] 380/400/415 Rated frequency [Hz] 50/60 Max. input/output current [A] 63 ENVIRONMENT LIMIT Protection degree IP54 Protection class Class I Operating temperature range [°C] -35-+60 (derating at +45) Storage temperature [°C] -40-+70 Relative humidity [%] 0-100 (non-condensing) Max. operation altitude [m] 3000 GENERAL DATA Dimensions (W × H × D) [mm] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Rated grid voltage	[V]	380/400/415
Max. operation altitude mm mm 503 × 652 × 204 mm Matural mc mc mc mc mc mc mc m	Rated frequency	[Hz]	50/60
Max. input/ output current Max. outp	Max. input/output current	[A]	63/24.1
Rated frequency [Hz] 50/60 Max. input/output current [A] 63 ENVIRONMENT LIMIT Protection degree IP54 Protection class Class I Operating temperature range [°C] -35 - +60 (derating at +45) Storage temperature [°C] -40 - +70 Relative humidity [%] 0 - 100 (non-condensing) Max. operation altitude [m] 3000 GENERAL DATA Dimensions (W × H × D) [mm] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	LOAD		
Max. input/output current [A] 63 ENVIRONMENT LIMIT Protection degree IP54 Protection class Class I Operating temperature range [°C] -35 - +60 (derating at +45) Storage temperature [°C] -40 - +70 Relative humidity [%] 0 - 100 (non-condensing) Max. operation altitude [m] 3000 GENERAL DATA Dimensions (W × H × D) [mm] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Rated grid voltage	[V]	380/400/415
ENVIRONMENT LIMIT	Rated frequency	[Hz]	50/60
Protection degree IP54 Protection class Class I Operating temperature range (°C) -35 - +60 (derating at +45) Storage temperature (°C) -40 - +70 Relative humidity (%) 0 - 100 (non-condensing) Max. operation altitude (m) 3000 GENERAL DATA Dimensions (W × H × D) [mm] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Max. input/output current	[A]	63
Protection class Class	ENVIRONMENT LIMIT		
Operating temperature range [°C] -35 - +60 (derating at +45) Storage temperature [°C] -40 - +70 Relative humidity [%] 0 - 100 (non-condensing) Max. operation altitude [m] 3000 GENERAL DATA Dimensions (W × H × D) [mm] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Protection degree		IP54
Storage temperature [°C] -40 - +70 Relative humidity [%] 0 - 100 (non-condensing) Max. operation altitude [m] 3000 GENERAL DATA Dimensions (W × H × D) [mm] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Protection class		
Relative humidity [%] 0 - 100 (non-condensing) Max. operation altitude [m] 3000 GENERAL DATA Dimensions (W × H × D) [mm] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Operating temperature range		
Max. operation altitude [m] 3000 GENERAL DATA Dimensions (W × H × D) [mm] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Storage temperature		
GENERAL DATA Dimensions (W × H × D) [mm] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Relative humidity	[%]	0 - 100 (non-condensing)
Dimensions (W × H × D) [mm] 503 × 652 × 204 Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Max. operation altitude	[m]	3000
Weight [kg] 14.5 Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	GENERAL DATA		
Over voltage category (OVC) III (AC)/II (DC) Cooling concept Natural	Dimensions (W × H × D)		
Cooling concept Natural	Weight	[kg]	
· · · · · · · · · · · · · · · · · · ·	Over voltage category (OVC)		III (AC)/II (DC)
Warranty [Year] 10	Cooling concept		
	Warranty	[Year]	10

■ Q.SAVE-G3

		Q.SAVE-G3 X.X kWh				
		6.0	9.0	12.0		
SYSTEM DATA						
System Components		1x Q.SAVE BMS-G32x Q.SAVE BAT-G3	1x Q.SAVE BMS-G33x Q.SAVE BAT-G3	1x Q.SAVE BMS-G34x Q.SAVE BAT-G3		
Usable energy	[kWh]	5.5	8.3	11.0		
Total energy	[kWh]	6.1	9.2	12.3		
Battery type			LFP (LiFePO4)			
Nominal voltage	[V]	204.8	307.2	409.6		
Operating voltage range	[V]	180 - 232	270 - 348	360 - 464		
Max. charge/discharge power	[kW]	6.1	9.2	12.3		
Max. charge/discharge current	[A]		30			
Rated charge/discharge power	[kW]	5.1	7.65	10.2		
Rated charge/discharge current	[A]		25			
Faradic charge efficiency	[%]		99			
Battery roundtrip efficiency	[%]		95			
Max. Depth Of Discharge (DOD)	[%]		90			
Cycle life [@90% DOD]			6000 cycles			
ENVIRONMENT LIMIT						
Protection degree			IP65			
Protection class			Class I			
Operating temperature range	[°C]		-30 to 50			
Relative humidity	[%]	0 - 100 (non-condensing)				
Storage temperature	[°C]		0 to 40 (1 year)			
Max. operation altitude	[m]		3000			
COMMUNICATION AND USER INTERFACE						
BMS/Inverter/Battery module		RS485/CAN 2.0				
BMS LED indicator		SOC: 4 LED (25%, 50%, 75%, 100%); Status: 1 LED (working mode)				
System switch (ON/OFF)			Power button, DC-Breaker			
COMPLIANCE						
Safety		VDE 2510-50/EN 62619 EN 61000-6-1/EN 61000-6-2/EN 61000-6-3/EN 61000-6-4/				
EMC		EN 61000-6-1/EN 61000-0-2/EN 61000-6-3/EN 61000-0-4/ EN 61000-3-2/EN 61000-3-3/EN 61000-3-11/EN 61000-3-12				
UN number		UN3480				
Hazardous materials classification		Class 9				
Transport testing requirement		UN38.3				
GENERAL DATA						
Over voltage category (OVC)		II (DC)				
Cooling concept		Natural convection				
Reverse connect protection		Yes				
Warranty	[Year]	10*				
Q.SAVE BMS-G3						
Dimensions (W × H × D)	[mm]		482 × 173 × 153			
Weight	[kg]		7.5			
Q.SAVE BAT-G3						
Dimensions (W × H × D)	[mm]		482 × 471 × 153			
AAT - 1 - 1 - 1						

CONFIGURATIONS (SUGGESTED) **

* See Warranty Terms

Weight

**Installation instructions must be followed. For more installation configurations, please refer to the installation manual and the technical documentation or contact our technical service department for further information on approved installation and use of this product.



34.5

[kg]