Q.HOME+ ESS HYB-G3-1P



Energy Storage Solution

Hybrid Inverter 3.7/5.0/6.0 kW | 3.0/6.0/9.0/12.0 kWh Up to 97.6% Conversion Efficiency

MODEL Q.VOLT HYB-G3-1P | Q.SAVE MATEBOX-G3-1P | Q.SAVE-G3





Quick and easy installation

Modular type setting for faster and easier installation





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

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



On and off grid parallel use

Inverter on and off gird parallel to support higher power loads



Unbalanced output supported

Prevent voltage imbalance when using high-power electrical appliances

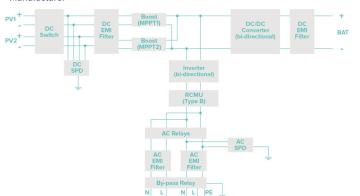


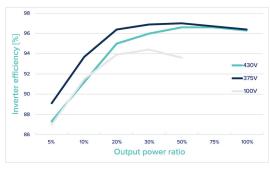
Shadow fix function for optimised yield

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

■ Q.VOLT HYB-G3-1P

			Q.VOLT HYB-G3 X.X kW 1P				
INDUT. DO		3.7	5.0	6.0			
NPUT - DC	FLAM / 7		7.5	0.0			
Max. recommended PV power	[kWp]	5.5	9.0				
Max. voltage (nominal operating voltage)	[V]	600 (360)					
Max. input current (short circuit current) (input A/input B)	[A]	14 (16)/14 (16) 70 - 550 (90)					
MPPT voltage range (start operating voltage)	[V]						
No. of MPP trackers/Strings per MPPT tracker							
NPUT - AC							
Max. apparent AC power	[kVA]	7.36 9.2		9.0			
Max. current	[A]	32 40		40			
Nominal grid voltage (voltage range)	[V]						
Nominal grid frequency	[Hz]						
OUTPUT - AC							
Nominal (max.) power	[kVA]	3.68 (3.68) 5.0 (5.5)		6.0 (6.6)			
Nominal grid voltage (AC voltage range)	[V]	220/230/240 (180 - 270), 1P/N/PE					
Nominal grid frequency	[Hz]		50/60				
Rated current (Max. current)	[A]	16 (16)	21.7 (23.9)	26.1 (28.6)			
Short circuit current	[A]	20.8	29.8	34.3			
Displacement power factor	P Y	20.0	0.8 leading 0.8 lagging	57.5			
THDi, rated power	[%]		< 2				
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OUTPUT - AC/EPS (WITH BATTERY)							
Max. continuous apparent power	[kVA]	3.68 5.0		6.0			
Rated voltage	[V]	230					
Rated frequency	[Hz]		50/60				
Max. continuous current	[A]	16 21.7		26.1			
Peak apparent power	[kVA]	4.41 6.0		7.2			
Duration	[s]	600					
Changeover time	[ms]		< 100				
THDv, linear Load	[%]		< 2				
	[]		_				
EFFICIENCY	50.13						
MPPT efficiency	[%]		99.9				
Euro efficiency (max. efficiency)	[%]	97.0 (97.6)					
Battery charge/discharge efficiency	[%]		97.0/97.0				
COMPLIANCE							
Safety			EN 62109-1/EN 62109-2				
•		EN 61000-6	-1/EN 61000-6-2/EN 61000-6-3/EN	V61000-6-4/			
EMC			-2/EN 61000-3-3/EN 61000-3-11/EI				
Certification (more available upon request)			98/EN 50549-1/CEI 0-21/VDE 021				
SAFETY & PROTECTION							
Overvoltage protection (integrated SPD)			AC (Type III)/DC (Type III)				
Integrated safety functions			Back feed current monitoring Residual current detection Anti-islanding protection				
END//BONDAENT LIBATE		DC injection monitoring	- 7 than islanding protection	detection			
ENVIRONMENT LIMIT			IDSE				
Protection degree		IP65					
Protection class	[90]	Class I					
Operating temperature range	[°C]	-35 - +60 (derating at +45)					
Max. operation altitude	[m]	3000					
Relative humidity	[%]	0 - 100 (non-condensing)					
Storage temperature	[°C]		-40 - +65				
Typical noise emission	[dB]	< 30					
GENERAL DATA							
Dimensions (W × H × D)	[mm]		482 × 417 × 181				
Weight	[kg]	22					
Over voltage category (OVC)			III (AC)/II (DC)				
Cooling concept			Natural convection				
Topology			Non-isolated				
Communication interfaces			I, Ethernet (both with adapter)/USB	1 3 /			
		Dry Contact (with adapter)/RS485/CAN 2.0					
			Backlight, 20 × 4 character				
LCD display Warranty	[Year]		10				



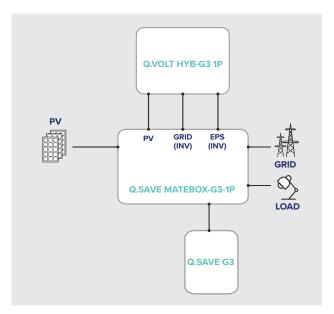


■ Q.SAVE MATEBOX-G3-1P

Manufacturer

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.





SolaX Power Network Technology (Zhejiang) Co. ,Ltd.

PV				
	Г\ Л	500		
Max. input voltage	[V]	600		
Max. short circuit current (input A/input B)	[A]	16/16		
BATTERY				
Battery voltage range	[V]	80 - 480		
Max. charge/discharge current	[A]	30		
GRID (INV)				
Rated voltage	[V]	220/230/240		
Rated frequency	[Hz]	50/60		
Max. apparent input/output power	[kVA]	7.5		
Max. on-grid current	[A]	32.6		
EPS/OFF-GRID (INV)				
Rated voltage	[V]	230		
Rated frequency	[Hz]	50/60		
Rated power	[kVA]	7.5		
Rated current	[A]	32.6		
GRID				
Rated grid voltage	[V]	220/230/240		
Rated frequency	[Hz]	50/60		
Max. input/output current	[A]	60		
LOAD				
Rated grid voltage	[V]	220/230/240		
Rated frequency	[Hz]	50/60		
Max. input/output current	[A]	60		
ENVIRONMENT LIMIT				
Protection degree		IP54		
Protection class		Class I		
Operating temperature range	[°C]	-35 - +60		
Storage temperature	[°C]	-40 - + 70		
Relative humidity	[%]	0 - 100 (non-condensing)		
Max. operation altitude	[m]	3000		
GENERAL DATA				
Dimensions (W × H × D)	[mm]	533 × 437 × 185		
Weight	[kg]	10		
Over voltage category (OVC)		III (AC)/II (DC)		
Cooling concept		Natural		
Warranty	[Year]	10		

■ Q.SAVE-G3

				3 X.X kWh			
SYSTEM DATA		3.0	6.0	9.0	12.0		
System Components		• 1x Q.SAVE BMS-G3	• 1x Q.SAVE BMS-G3	• 1x Q.SAVE BMS-G3	• 1x Q.SAVE BMS-G3		
Usable energy	[kWh]	• 1x Q.SAVE BAT-G3 2.8	• 2x Q.SAVE BAT-G3 5.5	• 3x Q.SAVE BAT-G3 8.3	• 4x Q.SAVE BAT-G3 11.0		
Total energy	[kWh]	3.1	6.1	9.2	12.3		
Battery type	[ixvvii]	LFP (LiFePO4)					
Nominal voltage	[V]	102.4	204.8	307.2	409.6		
Operating voltage range	[V]	90 - 116	180 - 232	270 - 348	360 - 464		
Max. charge/discharge power	[kW]	3.1	6.1	9.2	12.3		
Max. charge/discharge current	[A]		3	30			
Rated charge/discharge power	[kW]	2.55	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)	[%]			00			
Cycle life [@90% DOD]			6000	cycles			
ENVIRONMENT LIMIT							
Protection degree			IP	65			
Protection class				nss I			
Operating temperature range	[°C]			to 50			
Relative humidity	[%]			-condensing)			
Storage temperature	[°C]			ths), 0 to 40 (1 year)			
Max. operation altitude	[m]		30	000			
COMMUNICATION AND USER INTERFACE							
BMS/Inverter/Battery module			RS485/	CAN 2.0			
BMS LED indicator		SOC: 4	LED (25%, 50%, 75%, 10	0 %); Status: 1 LED (workir	ng mode)		
System switch (ON/OFF)		Power button, DC-Breaker					
COMPLIANCE							
Safety		ENI		0/EN62619	0.47		
EMC		EN 61000-6-1/EN 61000-6-2/EN 61000-6-3/EN 61000-6-4/ 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			UN	38.3			
GENERAL DATA							
Over voltage category (OVC)				DC)			
Cooling concept		Natural convection					
Reverse connect protection		Yes					
Warranty	[Year]	10*					
Manufacturer		SolaX Power Network Technology (Zhejiang) Co. ,Ltd.					
Q.SAVE BMS-G3							
Dimensions (W × H × D)	[mm]	482 × 173 × 153					
Weight	[kg]	7.5					
O SAVE DAT G2							
Q.SAVE BAT-G3 Dimensions (W × H × D)	[mm]	402 ~ 474 ~ 452					
Weight	[kg]	482 × 471 × 153 34.5					
<u>-</u>	ניי9ז						
CONFIGURATIONS (SUGGESTED) **							
* See Warranty Terms		Q.SAVE-0	93 3.0 kWh	Q.SAVE-0	63 6.0 kWh		
**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.		ca 160 cm	3. 50 cm	n 208 m	□ a 50 cm		
		Q.SAVE-0	G3 9.0 kWh	Q.SAVE-G	3 12.0 kWh		
		ocets	5-25 cm	5 5 ca. 50 cm	20-25 cm		