Energy Generation and Storage

2024 Catalogue







Qudeox is a pioneering technology brand, focused on providing smart, reliable and cost-effective renewable energy solutions and services. Our main products are solar inverters and energy storage systems for residential, commercial and industrial use.

We have an expert and dynamic team, passionate about science and technology and committed to excellence. With a forward-looking development philosophy, we never stop exploring and innovating.

Through our partner program, we are building a global network of distribution channels to ensure that our clean energy solutions and services reach users around the world. Join us, to grow together and build with us a sustainable future.

#Experience #Innovation #Service





POWERING A SUSTAINABLE WORLD



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Retrofit function: intelligent AC coupling solution for easy upgrade of existing grid-connected systems

Smart UPS, plug & play, seamless switching under 20 seconds to give sufficient backup power for emergency use

Up to 200% surge power backup overload capability in 10 seconds



User friendly

Color LED display with intuitive multilingual software Online monitoring via app

Remote control and upgrade function



Easy to install

Compatible with lithium-ion, leadacid and sodium batteries

Pre-wired communication cables for plug and play

Supports single-phase and threephase flexible parallel installation

Input DC (PV side) Recommended maximum PV power 7kW Start-up voltage Maximum input voltage Rated voltage MPPT voltage range	100V 600V 330V 90V~520V 20A / 20A	11kW					
Start-up voltage Maximum input voltage Rated voltage	600V 330V 90V~520V 20A / 20A	11kW					
Maximum input voltage Rated voltage	600V 330V 90V~520V 20A / 20A						
Rated voltage	330V 90V~520V 20A / 20A						
	90V~520V 20A / 20A						
MPPT voltage range	20A / 20A						
		90V~520V					
Maximum input current		20A / 20A					
Maximum short circuit current	30A / 30A						
Number of MPPT / Strings per MPPT	2/2						
Battery							
Battery type Lithium	Lithium / Lead-acid / Sodium						
Battery voltage range	42V~58V						
Battery capacity 5	50Ah~2000Ah						
Maximum charge/discharge power 3kW 3.6kW		5kW					
Maximum charge/discharge current 62.5A		100A					
Communication	CAN						
Output AC (Back-up)							
Rated output power 3kW 3.6kW	4kW	5kW	6kW				
Maximum apparent output power 4.5kVA, 10 sec		7kVA, 10 sec					
Back-up switch time	<20 ms						
	1P/N/PE, 220V / 230V						
Rated output frequency	50Hz						
	14A / 13.5A 23A / 22A						
'	<2% (@ linear load)						
Input AC (Grid side)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Input voltage range	187V~265V						
Maximum input current 20.5A / 20A 25A / 23.5A	31.5A / 30A	34.5A / 33A	34.5A / 33A				
'	-55Hz / 55-65Hz	01.0/1/00/1	01.0/1/00/1				
Output AC (Grid side)	001.127.00.001.12						
Rated output power 3kW 3.6kW	4kW	5kW	6kW				
Maximum apparent output power 3.3kVA 4kVA	4.4kVA	5.5kVA	6.6kVA				
	I/PE, 220V / 230V						
Rated grid frequency	50Hz						
Rated grid output current 13.7A / 13.1A 16.4A / 15.7A	20.9A / 20A	22.8A / 21.7A	27.3A / 26.1A				
Maximum output current 15.1A / 14.4A 18A / 17.3A	23A / 22A	25.1A / 23.9A	30A / 28.7A				
Power factor >0.99 (-	-0.8~+0.8 adjustabl	e)					
THDi	<2%	<u>.</u>					
Performance data							
Maximum efficiency	97.1%						
EU efficiency	96.5%						
Protection Type II / AC Type II), Ground fault monitoring, Integ	DC reverse-polarity protection, Short circuit protection, Output over current protection, Surge protection (DC Type II / AC Type II), Ground fault monitoring, Integrated AFCI (DC arc-fault circuit protection, Activation required), Protection class/Over voltage category (I/II)						
	MC4 connector						
AC connection Quic	Quick connection plug						
Display 7.0" LCD	7.0" LCD color screen display						
Communication RS485, V	RS485, Wi-Fi, GPRS (optional)						
General data							
Operating temperature	-25°C~60°C						
Ingress protection rating	IP65						
	Natural cooling						
Maximum operating altitude	3000 m						
Certifications EN61000-6-1/2/3/4, IEO	C/EN 62109-1/2, IE	C61140, CEI 0-21					
Weight	20 kg						
Dimensions (WxDxH) 42	0x235x450 mm						





High safety LiFePO4 chemistry

BMS complete protection

IP65 protection for indoor and outdoor use



User friendly

Color LED display, with easy to read battery status Online monitoring via app Remote upgrade via inverter



Easy to install

Pre-wired communication cables for plug and play Horizontal and vertical wall mounting Simple lifetime energy capacity expansion

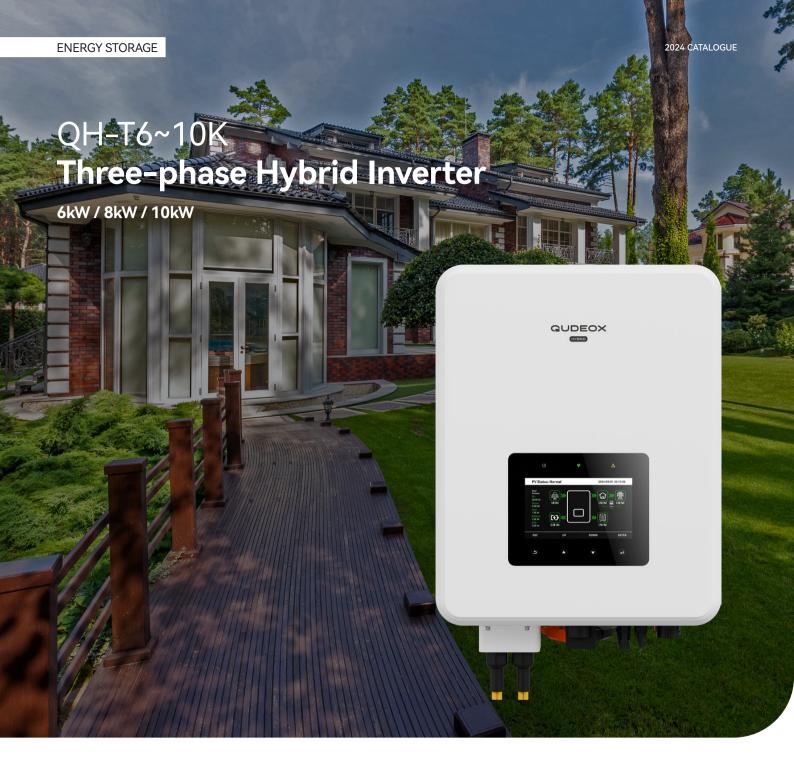
Technical Data QB-L5.12K

Battery type	LFP / LiFePO4 (Lithium Iron Phosphate)
Nominal voltage	51.2V
Nominal capacity	100Ah
Nominal energy	5.12kWh
Terminal type	Plug-in
Terminal torque	8.5NM
Case material	SPCC
BMS build-in	Yes
AH Efficiency - round trip	>98%
Self discharge per month	<3%
Maximum in parallel	16 pcs
Maximum in series	Not allowed
LCD screen	Optional
Operating voltage range	44.8V~57.6V
Recommended charge voltage	57V
Maximum charge voltage	59V
Recommended charge current	20A
Maximum continuous current	100A
Recommended discharge voltage	46V
Maximum discharging voltage	44.8V
Maximum continuous discharge current	100A
Peak discharge current	150A/3S
Cycle life	6000 cycles (0.2C, 25°C @80% DOD)
Ingress protection rating	IP65
Charge/Discharge protection temperature	0°C~55°C / -20°C~55°C
Operating temperature	-20°C~45°C
Bluetooth (App)	Optional
Heating function	Optional
Certifications	CE, IEC62619, UN38.3
Weight	50 kg
Dimensions (WxDxH)	420x180x600 mm











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Technical Data	QH-T6K	QH-T8K	QH-T10K				
Input DC (PV side)							
Recommended maximum PV power	9.6kW	12.8kW	16kW				
Start-up voltage		160V					
Maximum input voltage		1000V					
Rated voltage		600V					
MPPT voltage range	200V~850V						
Maximum input current		20A / 20A					
Maximum short circuit current		30A / 30A					
Number of MPPT / Strings per MPPT	2/2	2/3	2/4				
Battery							
Battery type		Lithium / Lead-acid					
Battery voltage range	120V~600V						
Maximum charge/discharge power	6kW	8kW	10kW				
Maximum charge/discharge current	25A	50)A				
Number of battery input		2					
Communication		CAN/RS485					
Output AC (Back-up)							
Rated output power	6kW	8kW	10kW				
Maximum apparent output power	9.6kVA, 60 sec	12.8kVA, 60 sec	16kVA, 60 sec				
Back-up switch time	·	<10 ms					
Rated output voltage		3P/N/PE, 380V / 400V					
Rated output frequency	50Hz						
Rated output current	9.1A / 8.7A	15.2A / 14.4A					
THDv	<2% (@ linear load)						
Input AC (Grid side)							
Maximum input power	9kW	12kW	15kW				
Maximum input current	13.8A	18.2A	22.8A				
Rated input voltage		3P/N/PE, 380V / 400V	200.				
Rated input frequency		50Hz					
Output AC (Grid side)							
Rated output power	6kW	8kW	10kW				
Maximum apparent output power	6.6kVA	8.8kVA	11kVA				
Rated grid voltage	0.000	3P/N/PE, 380V / 400V	TINVA				
Rated grid frequency		50Hz					
Rated grid output current	9.1A / 8.7A	12.2A / 11.5A	15.2A / 14.4A				
Maximum output current	10A / 9.6A	13.4A / 12.7A	16.7A / 15.8A				
Power factor	10/1/ /.6/1	>0.99 (-0.8~+0.8 adjustable)	16.7777 16.677				
THDi		<3%					
Performance data							
Maximum efficiency	97.0%	97.5%	97.9%				
EU efficiency	97.1%	97.4%	97.5%				
Protection	Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse protection						
DC connection	MC4 connector						
AC connection	Quick connection plug						
Display	LED + Bluetooth + APP						
Communication	CAN, RS485, Wi-Fi, LAN (optional)						
General data							
Operating temperature		-25°C~60°C					
Ingress protection rating		IP66					
Cooling method		Natural cooling					
Maximum operating altitude		4000 m					
Certifications	EN61000-6-1/2	2/3/4, IEC/EN 62109-1/2, IEC61140, CE	I 0-21/CEI 0-16				
Weight		25 kg					
Dimensions (WxDxH)		420x235x530 mm					





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	Technical Data	QH-T12K	QH-T15K	QH-T20K		
Start-up voltage 160V	Input DC (PV side)					
Maximum injust voltage 1,000V Rated voltage 600V Maximum injust current 1,000V Maximum injust current 1,000V Maximum injust current 3,004 7,004 7,004 7,004 Number of MPFI / Strings per MPPT 4,04 Stetry Voltage range Battery voltage range 1,200V Battery voltage range 1,200V Maximum charge/discharge power 1,200V Maximum charge/discharge querrent 5,004 Number of battery input 2 Communication interface CANNES485 Output AC (Back-up) Rated output power 1,218W 1,58W 2,006W Maximum apparent output power 1,218W 1,318W 2,318W	Recommended maximum PV power	19.2kW	24kW	32kW		
Rated voltage and	Start-up voltage		160V			
MPPT voltage range	Maximum input voltage		1000V			
Maximum injust current 20A / 20	Rated voltage		600V			
Maximum short circuit current 30A / 30A / 30A / 30A / 30A / 30A Number of MPPT Strings per MPPT 4/4 Battery type Lithium / Lead-acid Battery ytype Lithium / Lead-acid Battery ytype 120W-800 / 30W Maximum charge/discharge power 12kW 15kW 20kW Maximum charge/discharge current 50A Number of blast for plust 2 Communication interface 2 CANINSASE 3 Communication interface 12kW 15kW 20kW Communication interface 2 times of rated power, 10 S 3 Rated output proper 12kW 15kW 20kW 20kW Maximum apparent output power 12kW 3/87kPF_880V / 40V 20kW 3 3 4 2 4 <th>MPPT voltage range</th> <th></th> <th>200V~850V</th> <th></th>	MPPT voltage range		200V~850V			
Maximum short circuit current 30A / 30A / 30A / 30A / 30A / 30A Number of MPPT Strings per MPPT 4/4 Battery type Lithium / Lead-acid Battery ytype Lithium / Lead-acid Battery ytype 120W-800 / 30W Maximum charge/discharge power 12kW 15kW 20kW Maximum charge/discharge current 50A Number of blast for plust 2 Communication interface 2 CANINSASE 3 Communication interface 12kW 15kW 20kW Communication interface 2 times of rated power, 10 S 3 Rated output proper 12kW 15kW 20kW 20kW Maximum apparent output power 12kW 3/87kPF_880V / 40V 20kW 3 3 4 2 4 <th></th> <th></th> <th>20A / 20A / 20A / 20A</th> <th></th>			20A / 20A / 20A / 20A			
Battery type Lithium / Lead-acid Battery vytoge range 120V-800V Maximum charge/discharge power 12W 15kW 20kW Maximum charge/discharge current 5DA 2 Number of battery input 2 2 Communication interface CANIRS-85 3 Output AC (Geds-up) Text of state power 10 S 2 Rated output power 12kW 15kW 20kW Maximum apparent output power 12kW 31kWPE, 380V / 400V 380K / 400V Rated output voltage 37kVPE, 380V / 400V 380V / 400V 380K			30A / 30A / 30A / 30A			
Battery type Lithium / Lead-acid Battery vytoge range 120V-800V Maximum charge/discharge power 12W 15kW 20kW Maximum charge/discharge current 5DA 2 Number of battery input 2 2 Communication interface CANIRS-85 3 Output AC (Geds-up) Text of state power 10 S 2 Rated output power 12kW 15kW 20kW Maximum apparent output power 12kW 31kWPE, 380V / 400V 380K / 400V Rated output voltage 37kVPE, 380V / 400V 380V / 400V 380K	Number of MPPT / Strings per MPPT		4/4			
Battery voltage range 120V-900V Maximum charge/discharge power 12kW 15kW 20kW Maximum charge/discharge power 12kW 15kW 20kW Number of battery input 2 2 Communication interface CANNRS485 30kW Output AC (Fack-up) Table of rated power, 10 S Rated output power 12kW 15kW 20kW Maximum apparent output power 2 times of rated power, 10 S 30kW Rated output voltage 3PN/PE, 380V / 400V 3PN/PE, 380V / 400V Rated output current 18 2A / 17.3A 22 8 / 21.7A 30.4A / 28.9A ThOv 18 2A / 17.3A 22 8 / 21.7A 30.4A / 28.9A Maximum input power 18 kW 22 5kW 30kW Maximum input power 18 kW 22 5kW 30kW Rated input frequency 12kW 15kW 20 kW Rated input frequency 12kW 15kW 20 kW Rated just frequency 12kW 15kW 20 kW Rated just frequency 12kW						
Maximum charge/discharge power 12kW 15kW 20kW Maximum charge/discharge current 50A SA SA <t< th=""><th>Battery type</th><th></th><th>Lithium / Lead-acid</th><th></th></t<>	Battery type		Lithium / Lead-acid			
Maximum charge/discharge current SOA Number of battery input 2 Communication interface CANRS485 Output AC (Back-up) TSKW 20kW Rated output power 12kW 15kW 20kW Back-up switch time 15kW 20kW Rated output voltage 3PIN/PE, 380V / 400V Rated output frequency 50Hz 3PIN/PE, 380V / 400V Rated output qurrent 18 2A / 17.3A 22 8A / 21.7A 30 4A / 28.9A THDV 2% (Gli side) 3PIN/PE, 380V / 400V Maximum input power 18kW 22.5kW 30kW Maximum input power 18kW 22.5kW 30kW Maximum input current 2.73A 3.42A 45.6A Rated input frequency 50Hz 3PIN/PE, 380V / 400V Rated input frequency 12kW 15kW 20kW Maximum apparent output power 12kW 15kW 20kW Maximum apparent output power 12kW 15kW 20kW Maximum apparent output power 12kW 15kW	Battery voltage range		120V~800V			
Number of battery input Communication interface CAN/RS485 Output AC (Back-up) Volume 15kW 20 kW Rated output power 12kW 15kW 20kW Maximum apparent output power 37kN/PE, 380V / 400V 380V / 400V Rated output voltage 37kN/PE, 380V / 400V 30 kA / 28 PA Rated output frequency 50Hz 30 kA / 28 PA Rated output current 18 2A / 17,3A 28 A / 21 7A 30 kA / 28 PA ThDv	Maximum charge/discharge power	12kW	15kW	20kW		
Communication interface CAN/RS485 Output AC (Back-up) Section of Tated power (10 No	Maximum charge/discharge current		50A			
Output AC (Back-up) Rated output power 12kW 15kW 20kW Maximum apparent output power 8ack-up switch time - 10 ms Rated output Voltage 3PN/PE, 380V / 400V Rated output treguency 50Hz Rated output trurent 18.24 / 17.3A 22.84 / 21.7A 30.44 / 28.9A THOV -2% (@ linear load) Input AC (Grid side) Maximum input power 18kW 22.5kW 30kW Maximum input current 27.3A 34.2A 45.6A Rated input voltage 3PN/PE, 380V / 400V 28.6C Rated input trequency 50Hz 50Hz Output AC (Grid side) Rated quity power 12kW 15kW 20kW Maximum apparent output power 13.2kVA 16.5kVA 22kVA Rated grid voltage 3PN/PE, 380V / 400V 24kVA 24kVA Rated grid output power 13.2kVA 16.5kVA 22kVA Rated grid output current 28.2k / 17.3A 22.8k / 21.7A 30.4k / 28.9A Rated grid output current <	Number of battery input		2			
Rated output power 12kW 15kW 20kW Maximum apparent output power 2 times of rated power, 10 s Seak-up switch time Rated output voltage 3PIN/PE, 380V / 400V Rated output frequency SoHz Rated output frequency 50Hz 30.44 / 28.9A THDV 30.44 / 28.9A THDV 30.44 / 28.9A THDV THDV 22.5kW 30.0W Maximum input power 18kW 22.5kW 30.0W Maximum input power 18kW 22.5kW 30.0W Maximum input corrent 27.3A 34.2A 45.6A 45.6A A8.6A Rated input voltage 3PIN/PE, 380V / 400V Rated input frequency 50Hz SOHZ	Communication interface		CAN/RS485			
Rated output power 12kW 15kW 20kW Maximum apparent output power 2 times of rated power, 10 s Seak-up switch time Rated output voltage 3PIN/PE, 380V / 400V Rated output frequency SoHz Rated output frequency 50Hz 30.44 / 28.9A THDV 30.44 / 28.9A THDV 30.44 / 28.9A THDV THDV 22.5kW 30.0W Maximum input power 18kW 22.5kW 30.0W Maximum input power 18kW 22.5kW 30.0W Maximum input corrent 27.3A 34.2A 45.6A 45.6A A8.6A Rated input voltage 3PIN/PE, 380V / 400V Rated input frequency 50Hz SOHZ	Output AC (Back-up)					
Maximum apparent output power 2 times of rated power, 10 S Back-up switch time <10 ms		12kW	15kW	20kW		
Back-up switch time		12111		201111		
Rated output requency 3P/N/PE, 380V / 400V Rated output frequency 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A THDv 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A THDv Value of the state of the s			· · · · · · · · · · · · · · · · · · ·			
Rated output frequency 50Hz Rated output current 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A TIDV < 22% (⊚ linear load)						
Rated output current 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A THOv <2% (@ linear load)						
THDV </th <th></th> <th>18 24 / 17 34</th> <th>30 44 / 28 94</th>		18 24 / 17 34	30 44 / 28 94			
Input AC (Grid side) Aximum input power 18kW 22.5kW 30kW Maximum input current 27.3A 34.2A 45.6A Rated input voltage 3P/N/PE, 380V / 400V Rated input frequency 50Hz Output AC (Grid side) Rated output power 12kW 15kW 20kW Maximum apparent output power 13.2kVA 16.5kVA 22kVA Rated grid voltage 3P/N/PE, 380V / 400V Rated grid output current 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A Maximum output current 20A / 19A 25A / 23.9A 33.4A / 31.8A Power factor <a< th=""><th><u> </u></th><th>10.2A7 17.3A</th><th></th><th>30.447 20.74</th></a<>	<u> </u>	10.2A7 17.3A		30.447 20.74		
Maximum input power 18kW 22.5kW 30kW Maximum input current 27.3A 34.2A 45.6A Rated input voltage 3P/N/PE, 380V / 400V Rated input frequency 50Hz Output AC (Grid side) Rated output power 12kW 15kW 20kW Maximum apparent output power 13.2kVA 16.5kVA 22kVA Rated grid voltage 3P/N/PE, 380V / 400V 22kVA Rated grid output current 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A Maximum output current 20A / 19A 25A / 23.9A 33.4A / 31.8A Power factor 399 (-0.8+0.8 adjustable) 34.7 (2.8) THDi 398.5% 34.7 (2.8) EU efficiency 98.5% 58.5 EU efficiency 97.5% 59.5 Protection 4Mc4 connection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection, Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse protection DC connection MC4 connector MC4 connection plug Display LED + Bluetooth + APP		*276 (@ III Cdi 10dd)				
Maximum input current 27.3A 34.2A 45.6A Rated input voltage 3P/N/PE, 380V / 400V Rated input frequency 50Hz Output AC (Grid side) Rated output power 12kW 15kW 20kW Maximum apparent output power 13.2kVA 16.5kVA 22kVA Rated grid voltage 3P/N/PE, 380V / 400V Rated grid frequency 50Hz Rated grid output current 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A Maximum output current 20A / 19A 25A / 23.9A 33.4A / 31.8A Power factor 2.9.99 (-0.8~+0.8 adjustable) 34.4 THDi 3% 38.5% EU efficiency 98.5% 4.4 De efficiency 97.5% 4.4 Protection Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse protection DC connection MC4 connector AC connection MC5 connection plug Display LED + Bluetooth + APP		401)4/	00.5174	20114/		
Rated input voltage 3P/N/PE, 380V / 400V Rated input frequency 50Hz Output AC (Grid side) Rated output power 12kW 15kW 20kW Maximum apparent output power 13.2kWA 16.5kWA 22kWA Rated grid voltage 3P/N/PE, 380V / 400V Rated grid frequency 50Hz Rated grid output current 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A Maximum output current 20A / 19A 25A / 23.9A 33.4A / 31.8A Power factor >0.99 (-0.8~+0.8 adjustable) ThDi 34 / 31.8A						
Rated input frequency Output AC (Grid side) Rated output power 12kW 15kW 20kW Maximum apparent output power 13.2kVA 16.5kVA 22kVA Rated grid voltage 3P/N/PE,380V / 400V Rated grid frequency 50Hz Rated grid output current 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A Maximum output current 20A / 19A 25A / 23.9A 33.4A / 31.8A Power factor >0.99 (-0.8~+0.8 adjustable) THDi 33.4A / 31.8A 33.4A / 31.8A Power factor Maximum efficiency 98.5% EU efficiency 98.5% EU efficiency 97.5% Protection Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch, DC reverse-polarity protection, Pv over voltage protection, Battery reverse protection DC connection MC4 connector AC connection Quick connection plug Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating tempe	·	27.3A		45.6A		
Output AC (Grid side) Rated output power 12kW 15kW 20kW Maximum apparent output power 13.2kVA 16.5kVA 22kVA Rated grid voltage 3P/N/PE, 380V / 400V Rated grid frequency 50Hz Rated grid output current 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A Maximum output current 20A / 19A 25A / 23.9A 33.4A / 31.8A Power factor >0.99 (-0.8~+0.8 adjustable) THDi <3% Performance data Maximum efficiency 98.5% EU efficiency 97.5% Protection Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection, Integrated Dc switch, DC reverse-polarity protection, Pv over voltage protection, Battery reverse protection DC connection MC4 connector AC connection MC4 connector AC connection Quick connection plug Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature -25°C-60°C Ingress protection rating			· · · · · · · · · · · · · · · · · · ·			
Rated output power 12kW 15kW 20kW Maximum apparent output power 13.2kVA 16.5kVA 22kVA Rated grid voltage 3P/N/PE, 380V / 400V Rated grid output current 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A Maximum output current 20A / 19A 25A / 23.9A 33.4A / 31.8A Power factor -0.99 (-0.8~+0.8 adjustable)			50HZ			
Maximum apparent output power Rated grid voltage Rated grid frequency Rated grid frequency Rated grid output current Rated grid requency Rated grid re	Output AC (Grid side)					
Rated grid voltage Rated grid frequency Rated grid frequency Rated grid output current Rated grid frequency Rated grid output current Rated grid frequency Rated grid output current Rated grid output grid and Assault As	<u> </u>					
Rated grid frequency Rated grid output current Rational Substitution of Substituti		13.2kVA		22kVA		
Rated grid output current 18.2A / 17.3A 22.8A / 21.7A 30.4A / 28.9A Maximum output current 20A / 19A 25A / 23.9A 33.4A / 31.8A Power factor 70.99 (-0.8~+0.8 adjustable) THDi 83.4B Performance data Maximum efficiency EU efficiency Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse protection DC connection AC connection AC connection Quick connection plug Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature 1P66						
Maximum output current 20A / 19A 25A / 23.9A 33.4A / 31.8A Power factor >0.99 (-0.8~+0.8 adjustable) THDi 3% Performance data Maximum efficiency 98.5% EU efficiency 97.5% Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse protection DC connection MC4 connector AC connection Quick connection plug Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature -25°C~60°C Ingress protection rating IP66						
Power factor >0.99 (-0.8~+0.8 adjustable) THDi 3,099 (-0.8~+0.8 adjustable) Performance data Maximum efficiency Maximum efficiency Protection Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse protection DC connection MC4 connector AC connection Quick connection plug Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature -25°C~60°C Ingress protection rating	Rated grid output current	***				
THDi 3% Performance data Maximum efficiency EU efficiency Protection Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection) Protection DC connection MC4 connector AC connection MC4 connection Quick connection plug Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature Performance data Operating temperature Performance 498.5% Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection, PV over voltage protection, Battery reverse protection MC4 connector AC connection Physical AFCI (DC arc-fault circuit protection, PV over voltage protection, Battery reverse protection PV over voltage protection, Battery reverse protection AC connection AC connection AC connection AC connection AC connection AC connection Physical AFCI (DC arc-fault circuit protection, PV over voltage protection, PV over voltage protection, Battery reverse protection PV over voltage protection, Battery reverse protection AC connection AC conn		20A / 19A		33.4A / 31.8A		
Performance data Maximum efficiency 98.5% EU efficiency 97.5% Protection Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse protection DC connection MC4 connector AC connection Quick connection plug Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature Operating temperature -25°C-60°C Ingress protection rating IP66						
Maximum efficiency98.5%EU efficiency97.5%ProtectionAnti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse protectionDC connectionMC4 connectorAC connectionQuick connection plugDisplayLED + Bluetooth + APPCommunication interfaceCAN, RS485, Wi-Fi, LAN (optional)General data-25°C~60°CIngress protection ratingIP66			<3%			
EU efficiency Protection Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse protection DC connection MC4 connector AC connection Display Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature Description Operating temperature Description 1P66	Performance data					
Anti-islanding protection, Output over current protection, Short circuit protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse protection DC connection MC4 connector AC connection Quick connection plug Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature -25°C~60°C Ingress protection rating	Maximum efficiency					
Protection circuit protection), Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse protection DC connection MC4 connector AC connection Quick connection plug Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature -25°C~60°C Ingress protection rating IP66	EU efficiency					
AC connection Quick connection plug Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature Ingress protection rating IP66	Protection	circuit protection), Integrated DC switch, DC reverse-polarity protection, PV over voltage protection, Battery				
Display LED + Bluetooth + APP Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature -25°C~60°C Ingress protection rating IP66	DC connection	MC4 connector				
Communication interface CAN, RS485, Wi-Fi, LAN (optional) General data Operating temperature -25°C~60°C Ingress protection rating IP66	AC connection	1 0				
General data Operating temperature -25°C~60°C Ingress protection rating IP66	Display					
Operating temperature -25°C~60°C Ingress protection rating IP66	Communication interface		CAN, RS485, Wi-Fi, LAN (optional)			
Ingress protection rating IP66	General data					
3 1	Operating temperature		-25°C~60°C			
Cooling method Intelligent redundant fan-cooling	Ingress protection rating		IP66			
	Cooling method		Intelligent redundant fan-cooling			
Maximum operating altitude 2000 m	Maximum operating altitude		2000 m			
Certifications EN61000-6-1/2/3/4, IEC/EN 62109-1/2, IEC61140, CEI 0-21/CEI 0-16	Certifications	EN61000-6-1/2	2/3/4, IEC/EN 62109-1/2, IEC61140, CEI 0	-21/CEI 0-16		
Weight 38 kg	Weight		38 kg			
Dimensions (WxDxH) 420x235x530 mm	Dimensions (WxDxH)		420x235x530 mm			





Retrofit function: intelligent AC coupling solution for easy upgrade of existing grid-connected systems

Smart UPS, plug & play, seamless switching under 20 seconds to give sufficient backup power for emergency use

Up to 200% surge power backup overload capability in 10 seconds



User friendly

Color LED display with intuitive multilingual software

Online monitoring via app

Remote control and upgrade function



Easy to install

Compatible with lithium-ion, leadacid and sodium batteries

Pre-wired communication cables for plug and play

Supports single-phase and threephase flexible parallel installation

Technical Data QH-T25K QH-T30K

recrimed Data	Q11 1251C	QTT TOOK					
Input DC (PV side)							
Recommended maximum PV power	37.5kW	42kW					
Start-up voltage	180V						
Maximum input voltage	11	1000V					
Rated voltage	6	500V					
MPPT voltage range		V~850V					
Maximum input current	3:	×40A					
Maximum short circuit current		x60A					
Number of MPPT / Strings per MPPT		3x6					
Battery							
Battery type	Lithium	/ Lead-acid					
Battery voltage range		V~800V					
Maximum charge/discharge power	25kW	33kW					
Maximum charge/discharge current	50A	70A×2					
Number of battery input	3071	2					
Communication	CAN	I/RS485					
Output AC (Back-up)	5/11/						
Rated output power	25kW	30kW					
Maximum apparent output power	2 times of rated power, 10 S	1.5 time of rated power, 10 S					
Back-up switch time	·	1.5 time of fated power, 10 3					
Rated output voltage							
Rated output frequency	3P/N/PE, 380V / 400V 50Hz						
Rated output frequency Rated output current	38.0A / 36.1A	45.6A / 43.3A					
rhDv	<2% (@ linear load)						
	~2% (@	ilileai loau)					
nput AC (Grid side)							
Maximum input power	35kW	45kW					
Maximum input current	60A	65A					
Rated input voltage	3P/N/PE, 380V / 400V						
Rated input frequency	5	50Hz					
Output AC (Grid side)							
Rated output power	25kW	30kW					
Maximum apparent output power	27.5kVA	33kVA					
Rated grid voltage	3P/N/PE,	380V / 400V					
Rated grid frequency	5	50Hz					
Rated grid output current	38.0A / 36.1A	45.6A / 43.3A					
Maximum output current	41.8A / 39.7A	50.1A / 47.6A					
Power factor	>0.99 (-0.8~-	+0.8 adjustable)					
THDi	<	< 3%					
Performance data							
Maximum efficiency	98.5%	97.6%					
EU efficiency	98.1%	97.0%					
Protection	(optional), DC reverse-polarity protection, Surge p	Anti-islanding protection, Output over current protection, Short circuit protection, Integrated DC switc (optional), DC reverse-polarity protection, Surge protection (DC Type II / AC Type II), Integrated AFCI (D arc-fault circuit protection)					
DC connection		connector					
AC connection	OTt	erminal					
Display	LED + Bluetooth + APP						
Communication	CAN, RS485, Ethernet; Optional: Wi-Fi, Cellular, LAN						
General data							
Operating temperature	-25°	°C~60°C					
Ingress protection rating		-25 C~60 C					
Cooling method		Intelligent redundant fan-cooling					
Maximum operating altitude		000 m					
Certifications		09-1/2, IEC61140, CEI 0-21/CEI 0-16					
Weight		0 kg					
TTOIGHT	<u> </u>	· · · · · · · · · · · · · · · · · · ·					

QB-H2.5K Stackable LFP Battery System

High Voltage | 7.5kWh~25kWh





Efficient and reliable

High safety LiFePO4 chemistry

BMS complete protection

IP65 protection for indoor and outdoor use



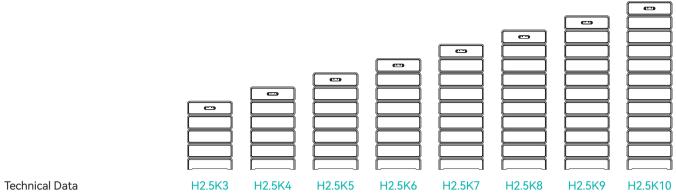
User friendly

Color LED display, with easy to read battery status Online monitoring via app Remote upgrade via inverter



Easy to install

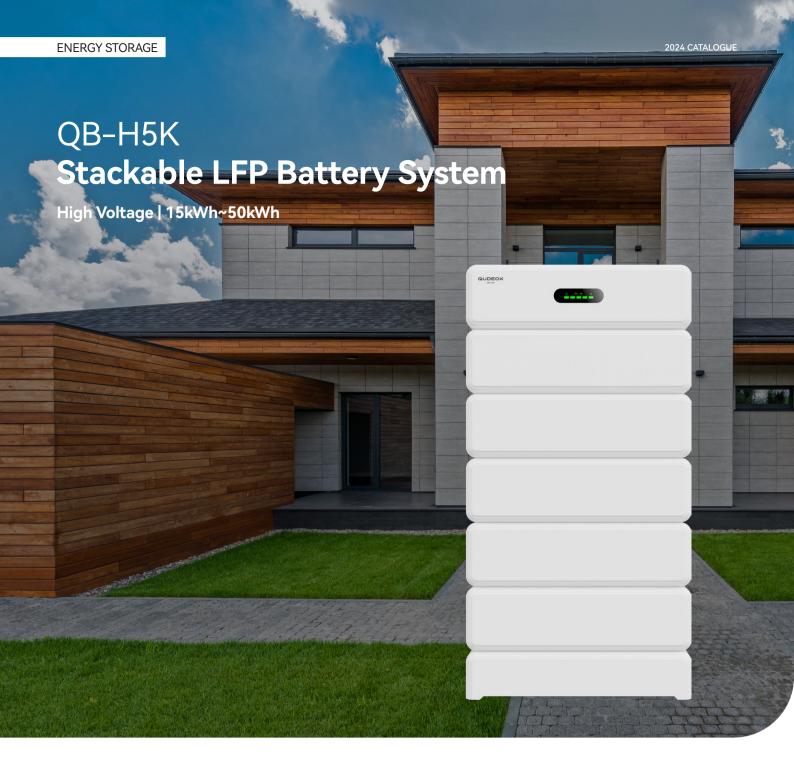
Pre-wired communication cables for plug and play Modular design for stackable assembly Simple lifetime energy capacity expansion



recnnicai Data	H2.5K3	H2.5K4	H2.5K5	H2.5K6	H2.5K/	HZ.5K8	H2.5K9	H2.5K10
Battery/PDU Modules								
Battery cell type			LFP /	LiFePO4 (Lithi	um Iron Phosp	hate)		
Battery cell capacity				2.56kWl	n / 50Ah			
Battery cell configuration				169	S1P			
PDU model				QB-H2.	5K-PDU			
Dimensions (WxDxH)				530x360x	x165 mm			
General Data								
Number of battery modules	3 + PDU	4 + PDU	5 + PDU	6 + PDU	7 + PDU	8 + PDU	9 + PDU	10 + PDU
Rated capacity	7.68kWh	10.24kWh	12.8kWh	15.36kWh	17.92kWh	20.48kWh	23.04kWh	25.6kWh
Rated voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V	460V	512V
Operating voltage range	120~175.2V	160~233.6V	200~292V	240~350.4V	280~408.8V	320~467.2V	400~584V	480~700.8V
Overcharge/Over-discharge protection voltage	115.2V / 86.4V (1s)							
Charge/Discharge overcurrent protection current	50A (5s) / 50A (5s), ≥90A (0.5s)							
Charge/Discharge protection temperature		0°C~55°C / -20°C~60°C						
Rated charge/discharge current				25	5A			
Maximum charge/discharge current				50)A			
Communication interface				CAN, F	RS485			
Cycle life	6000 cycles							
Ingress protection rating		IP65						
Operating temperature	-15°C~45°C							
Operating relative humidity	5%~85%							
Maximum working altitude		2000 m						
Certifications		CE, IEC62619, UN38.3						
Weight	110 kg	140 kg	170 kg	200 kg	230 kg	260 kg	290 kg	320 kg
Dimensions (WxDxH)		530x360x(705 / 860 / 1015 / 1170 / 1325 / 1480 / 1635 / 1790) mm						









High safety LiFePO4 chemistry

BMS complete protection

IP65 protection for indoor and outdoor use



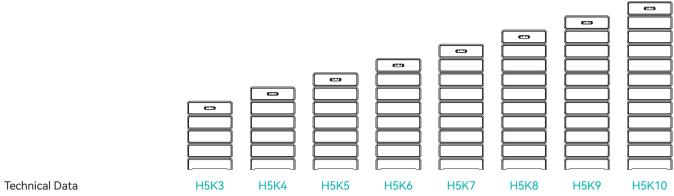
User friendly

Color LED display, with easy to read battery status Online monitoring via app Remote upgrade via inverter



Easy to install

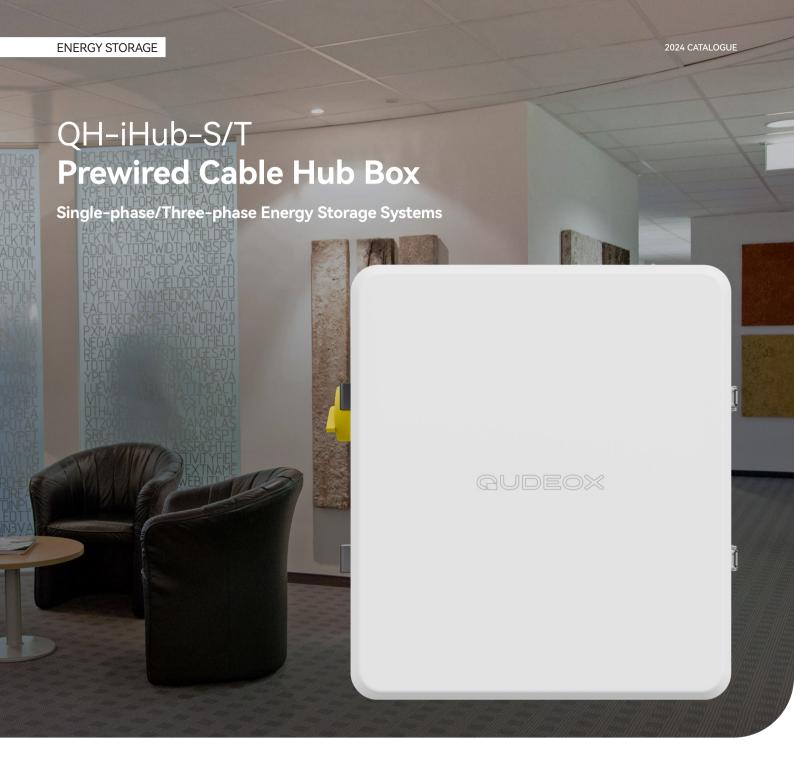
Pre-wired communication cables for plug and play Modular design for stackable assembly Simple lifetime energy capacity expansion



Rated capacity 15.36kWh 20.48kWh 25.6kWh 30.72kWh 35.84kWh 40.96kWh 46.08kWh 51.2kWh Rated voltage 153.6V 204.8V 256V 307.2V 358.4V 409.6V 460V 512V	recrifical Data	11313	1131(4	11313	TISKO	11317	HIJKO	1131(7	1131(10	
Battery cell capacity Battery cell configuration Battery cell configuration 16S1P PDU model QB-H5K-PDU Dimensions (WxDxH) Ceneral Data Number of battery modules 3 + PDU	Battery/PDU Modules									
Battery cell configuration 16S1P QB-H5K-PDU Dimensions (WxDxH) 630x380x180 mm	Battery cell type			LFP /	LiFePO4 (Lithi	um Iron Phosp	hate)			
PDU model QB-H5K-PDU	Battery cell capacity				5.12kWh	/ 100Ah				
Dimensions (WxDxH) 630x380x180 mm General Data Number of battery modules 3 + PDU 4 + PDU 5 + PDU 6 + PDU 7 + PDU 8 + PDU 9 + PDU 10 + PDU Rated capacity 153.6kWh 20.48kWh 25.6kWh 30.72kWh 358.4kWh 40.9kWh 46.08kWh 51.2kWh Rated voltage 153.6V 204.8V 256V 307.2V 358.4V 409.6V 460V 512V Operating voltage range 120~175.2V 160~233.6V 200~292V 240~350.4V 280~408.8V 320~467.2V 400~584V 480~700.8 Overcharge/Over-discharge protection voltage 115.2V / 86.4V (1s) Charge/Discharge overcurrent protection current 105A (5s) / 105A (5s), ≥180A (0.5s) Charge/Discharge protection temperature 50A Maximum charge/discharge current 50A Maximum charge/discharge current 50A CAN, RS485 Cycle life 6000 cycles Ingress protection rating 1865	Battery cell configuration				169	S1P				
General Data Number of battery modules 3 + PDU 4 + PDU 5 + PDU 7 + PDU 8 + PDU 9 + PDU 10 + PDU Rated capacity 15.36kWh 20.48kWh 25.6kWh 30.72kWh 35.84kWh 40.96kWh 46.08kWh 51.2kWh Rated voltage 153.6V 204.8V 256V 307.2V 358.4V 409.6V 460V 512V Operating voltage range 120~175.2V 160~233.6V 200~292V 240~350.4V 280~408.8V 320~467.2V 400~584V 480~700.8 Overcharge/Over-discharge protection voltage 115.2V/86.4V (1s) Charge/Discharge overcurrent protection current 105A (5s), 105A (5s), ≥180A (0.5s) Charge/Discharge protection temperature 105A (5s), ≥180A (0.5s) Rated charge/discharge current 100A Maximum charge/discharge current 100A Cycle life 60000 cycles Ingress protection rating 1P65 Operating temperature -15°C~45°C Operating temperature -15°C~45	PDU model				QB-H5	K-PDU				
Number of battery modules 3 + PDU 4 + PDU 5 + PDU 6 + PDU 7 + PDU 8 + PDU 9 + PDU 10 + PDU Rated capacity 15.36kWh 20.48kWh 25.6kWh 30.72kWh 35.84kWh 40.96kWh 46.08kWh 51.2kWh Rated voltage 153.6V 204.8V 256V 307.2V 358.4V 409.6V 460V 512V Operating voltage range 120~175.2V 160~233.6V 200~292V 240~350.4V 280~408.8V 320~467.2V 400~584V 480~700.8 Overcharge/Over-discharge protection voltage 115.2V / 86.4V (1s) Charge/Discharge overcurrent protection current 105A (5s) / 105A (5s), ≥180A (0.5s) Charge/Discharge protection temperature 50A Maximum charge/discharge current 50A Maximum charge/discharge current CAN, RS485 Cycle life 6000 cycles Ingress protection rating 1P65 Operating temperature -15°C~45°C Operating relative humidity <td c<="" th=""><th>Dimensions (WxDxH)</th><th></th><th></th><th></th><th>630x380x</th><th>k180 mm</th><th></th><th></th><th></th></td>	<th>Dimensions (WxDxH)</th> <th></th> <th></th> <th></th> <th>630x380x</th> <th>k180 mm</th> <th></th> <th></th> <th></th>	Dimensions (WxDxH)				630x380x	k180 mm			
Rated capacity 15.36kWh 20.48kWh 25.6kWh 30.72kWh 35.84kWh 40.96kWh 46.08kWh 51.2kWh Rated voltage 153.6V 204.8V 256V 307.2V 358.4V 409.6V 460V 512V Operating voltage range 120~175.2V 160~233.6V 200~292V 240~350.4V 280~408.8V 320~467.2V 400~584V 480~700.8 Overcharge/Over-discharge protection voltage 115.2V/86.4V (1s) Charge/Discharge overcurrent protection current 105A (5s) / 105A (5s), ≥180A (0.5s) Charge/Discharge protection temperature 100A Communication interface CAN, RS485 Cycle life 6000 cycles Ingress protection rating IP65 Operating temperature -15°C~45°C Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	General Data									
Rated voltage 153.6V 204.8V 256V 307.2V 358.4V 409.6V 460V 512V Operating voltage range 120~175.2V 160~233.6V 200~292V 240~350.4V 280~408.8V 320~467.2V 400~584V 480~700.8 Overcharge/Over-discharge protection voltage 115.2V / 86.4V (1s) Charge/Discharge overcurrent protection current 105A (5s) / 105A (5s), ≥180A (0.5s) Charge/Discharge protection temperature 50A Maximum charge/discharge current 100A Communication interface CAN, RS485 Cycle life 6000 cycles Ingress protection rating IP65 Operating temperature -15°C-45°C Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	Number of battery modules	3 + PDU	4 + PDU	5 + PDU	6 + PDU	7 + PDU	8 + PDU	9 + PDU	10 + PDU	
Operating voltage range 120~175.2V 160~233.6V 200~292V 240~350.4V 280~408.8V 320~467.2V 400~584V 480~700.8 Overcharge/Over-discharge protection voltage 115.2V / 86.4V (1s) Charge/Discharge overcurrent protection current 105A (5s) / 105A (5s), ≥180A (0.5s) Charge/Discharge protection temperature 50A Maximum charge/discharge current 50A Maximum charge/discharge current 100A Communication interface CAN, RS485 Cycle life 6000 cycles Ingress protection rating IP65 Operating temperature -15°C~45°C Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	Rated capacity	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh	46.08kWh	51.2kWh	
Overcharge/Over-discharge protection voltage 115.2V / 86.4V (1s) Charge/Discharge overcurrent protection current 105A (5s) / 105A (5s), ≥180A (0.5s) Charge/Discharge protection temperature 0°C~55°C / -20°C~60°C Rated charge/discharge current 50A Maximum charge/discharge current 100A Communication interface CAN, RS485 Cycle life 6000 cycles Ingress protection rating IP65 Operating temperature -15°C~45°C Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	Rated voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V	460V	512V	
T15.2V / 86.4V (1s) Charge/Discharge overcurrent protection current 105A (5s) / 105A (5s), ≥180A (0.5s) Charge/Discharge protection temperature Rated charge/discharge current 50A Maximum charge/discharge current 100A Communication interface Cycle life 6000 cycles Ingress protection rating IP65 Operating temperature -15°C~45°C Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	Operating voltage range	120~175.2V	160~233.6V	200~292V	240~350.4V	280~408.8V	320~467.2V	400~584V	480~700.8V	
TIOSA (5S)7 TIOSA (5S), ≥ TROPA (0.5S) Charge/Discharge protection temperature 0°C~55°C / −20°C~60°C Rated charge/discharge current 50A Maximum charge/discharge current 100A Communication interface CAN, RS485 Cycle life 6000 cycles Ingress protection rating IP65 Operating temperature −15°C~45°C Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg		115.2V / 86.4V (1s)								
temperature Rated charge/discharge current 50A Maximum charge/discharge current 100A Communication interface CAN, RS485 Cycle life 6000 cycles Ingress protection rating IP65 Operating temperature -15°C~45°C Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg		105A (5s) / 105A (5s), ≥180A (0.5s)								
Maximum charge/discharge current 100A Communication interface CAN, RS485 Cycle life 6000 cycles Ingress protection rating IP65 Operating temperature -15°C~45°C Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg					0°C~55°C/-	-20°C~60°C				
Communication interface CAN, RS485 Cycle life 6000 cycles Ingress protection rating IP65 Operating temperature -15°C~45°C Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	Rated charge/discharge current				50)A				
Cycle life 6000 cycles Ingress protection rating IP65 Operating temperature -15°C~45°C Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	Maximum charge/discharge current				10	0A				
Ingress protection rating	Communication interface				CAN, F	RS485				
Operating temperature -15°C~45°C Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	Cycle life	6000 cycles								
Operating relative humidity 5%~85% Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	Ingress protection rating	IP65								
Maximum working altitude 2000 m Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	Operating temperature	-15°C~45°C								
Certifications CE, IEC62619, UN38.3 Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	Operating relative humidity	5%~85%								
Weight 172 kg 220 kg 268 kg 316 kg 364 kg 412 kg 460 kg 508 kg	Maximum working altitude	2000 m								
	Certifications	CE, IEC62619, UN38.3								
Dimensions (WxDxH) 630x380x(800 / 980 / 1160 / 1340 / 1520 / 1700 / 1880 / 2060) mm	Weight	172 kg	220 kg	268 kg	316 kg	364 kg	412 kg	460 kg	508 kg	
	Dimensions (WxDxH)		630x380x(800 / 980 / 1160 / 1340 / 1520 / 1700 / 1880 / 2060) mm							









Modular, stackable design between inverter and battery system

Pre-wired system to minimize the risk of connection errors between inverter and battery system



User friendly

Compatible with our series of singlephase (QH-iHub-S) and three-phase (QH-iHub-T) hybrid inverters

Stylish aesthetics that avoids exposed wiring



Easy to install

Simplifies connection to save installation time

Tidy wiring and cable management for enhanced safety

Technical Data QH-iHub-S QH-iHub-T

	Q	X			
DC					
Maximum input voltage	600Vdc	1000Vdc			
Maximum short circuit current	16A / 16A	30A / 16A			
Number of MPP trackers		2			
Battery					
Battery voltage range	80V~480V	180V~650V			
Maximum charge/discharge current	30A				
On-grid					
Rated voltage frequency	220/230/240 Vac 50Hz/60Hz	380/400/415 Vac 50Hz/60Hz			
Maximum apparent on-grid input/out power	7.5kVA	20kVa			
Maximum on-grid current	32A				
Off-grid					
Rated voltage frequency	230Vac 50Hz/60Hz	400Vac 50Hz/60Hz			
Rated power	7.5kVA	15kVA			
Rated current	32.6A	24.1A			
Grid					
Rated voltage frequency	220/230/240 Vac 50Hz/60Hz	380/400/415 Vac 50Hz/60Hz			
Maximum input current	60A	32A			
Load					
Rated voltage frequency	220/230/240 Vac 50Hz/60Hz	380/400/415 Vac 50Hz/60Hz			
Maximum current	60A	24.1A			
General data					
Ingress protection rating	IP	54			
Protection class	Cla	ess I			
Operating temperature	-35°C~60°C (derating at 45°C)	-20°C~60°C (derating at 45°C)			
Storage temperature	-40°C~70°C				
Operating relative humidity	0%~100% (condensing)				
Maximum operating altitude	3000 m				
Over voltage category	III (AC)	II (DC)			
Cooling method		cooling			
Weight	10 kg	15 kg			
Dimensions (WxDxH)	420x250x480 mm	420x250x550 mm			









High safety LiFePO4 chemistry Liquid oil immersion cooling; unique system for ultimate safety

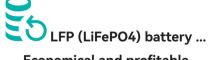
IP67, IP54 and C4 anti-corrosion protection for indoor and outdoor installation



Easy to install and use

Multi-scenario use, easy to transport Supports multi-cabinet parallel connection for easy system expansion

Intelligent energy management; remote monitoring and updates



Economical and profitable

High space utilization

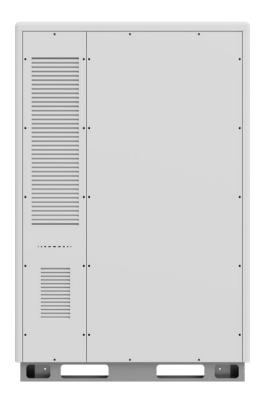
Energy independence and costeffectiveness for business use

SPOT market compatible to maximize the revenue

Technical Data QC-215K-O

Battery	
Battery type	LFP / LiFePO4 (Lithium Iron Phosphate)
Cell capacity	3.2V / 280Ah
Battery cell configuration	1P240S
Battery pack capacity	43kWh
Total battery cluster charge	215kWh
Battery pack usage	5 pcs
Rated battery voltage	768V
Battery voltage range	684V~852V
Continuous discharge/charge current rate	0.5C
Cycle life	≥6000
AC output data	
Rated output power	100kW
Maximum output current	150A
Rated output frequency	50Hz/60Hz
Grid voltage range	3L/N; 400V (-20%~15%)
On-grid and off-grid switching function	Yes
General data	
Ingress protection rating	IP67 (oil cooling battery pack), IP54 (others)
Anti-corrosion protection	C4 (optional upgrade to C5)
Communication interface	RS485, CAN
Communication protocol	Modbus-RTU, CAN
Battery cooling method	Liquid oil immersion cooling
PCS cooling method	Smart fan cooling
Fire fighting system	Aerosol
Operating temperature	-20°C~55°C
Operating relative humidity	0%~95% (no condensation)
Maximum operating altitude	2000 m
Weight	< 3000 kg
Dimensions (WxDxH)	1360x1320x2100 mm









Fanless design to prolong lifespan with full auto-protection AFCI protection, proactively reduces fire risk



User friendlyColor LED display with intuitive

multilingual software
Online monitoring via app
Remote control and upgrade function
Night SVG function to decrease
the loss of revenue



Easy to install

Pre-wired communication cables for plug and play
Parallel installation of up to 10 units

2024 CATALOGUE ONGRID INVERTERS

Technical Data	QG-T30K	QG-T30K QG-T33K QG-T36K QG-T40K QG-T45K Q					
DC input							
Maximum input power	45kWp	49.5kWp	54kWp	60kWp	67.5kWp	75kWp	
Maximum DC power of MPPT			201	⟨W			
Number of MPPT		3			4		
Number of PV string		6			8		
Maximum input voltage			110)0V			
Start-up voltage			20	0V			
Rated voltage			62	0V			
MPPT voltage range			180V~	1000V			
MPPT full power voltage range	480V~850V	510V~850V		540V	~850V		
Maximum input current		3x40A			4x40A		
Maximum short circuit current		3x50A			4x50A		
AC output							
Rated output power	30kW	33kW	36kW	40kW	45kW	50kW	
Maximum output power	34kVA	37kVA	40kVA	44kVA	50kVA	55kVA	
Rated output current	45.5A	50.0A	54.5A	60.6A	68.2A	75.8A	
Maximum output current	51.5A	56.0A	60.6A	66.7A	75.8A	83.3A	
Nominal output voltage			3P/N/PE	, 400Vac			
Grid voltage range		310Va	~480Vac (accordi	ng to local grid sta	andard)		
Nominal output frequency			50Hz/	′60Hz			
Grid frequency range	45Hz~55Hz / 54Hz~66Hz (according to the local grid standard)						
Output current THD	< 3%						
Output power factor	1 (-0.8~+0.8 adjustable)						
Performance data	,			-			
Maximum efficiency		98.6%			98.8%		
EU efficiency		70.070	98	0%	70.070		
MPPT efficiency		98.0%					
Self-consumption power at night	> 99.9% < 3W						
DC reverse polarity protection	< 3W Yes						
DC switch			Ye				
String fault detection			Ye				
Safety protection		Anti-islanding pro	otection, Leakage		d fault monitoring		
Anti backflow protection		31	Ye	'	<u> </u>		
AFCI protection			Opti	onal			
PID protection			Opti				
Input/Output SPD				AC: type II			
General data			,	91.			
Operating temperature			-30°C	~60°C			
Operating relative humidity							
Noise emission	0%~100% <60dB						
Cooling method	≤60dB						
Maximum working altitude	Intelligent redundant fan-cooling 4000 m						
Display screen	4000 m LCD + LED + APP						
Communication interface	RS485/USB, Optional: WiFi/GPRS/4G/PLC						
Warranty	10 years (extendable)						
Ingress protection rating							
Protective class	IP65						
Weight	Class I						
Dimensions (WxDxH)	36 kg 37 kg 585x220x480 mm						
			3038220	1-100 IIIII			
Certifications and standards			EN1/4000	/ 1/2/2//			
EMC	EN61000-6-1/2/3/4						
Safety standards			IEC/EN 62109-				
Grid connection	CEI 0-21/CEI 0-16						

QG-T60~80K Three-phase Ongrid Inverter

60kW / 70kW / 80kW





Efficient and reliable

Fanless design to prolong lifespan with full auto-protection AFCI protection, proactively reduces fire risk



User friendly

Color LED display with intuitive multilingual software Online monitoring via app Remote control and upgrade function Night SVG function to decrease the loss of revenue



Easy to install

Pre-wired communication cables for plug and play Parallel installation of up to 10 units 2024 CATALOGUE ONGRID INVERTERS

Technical Data QG-T60K QG-T70K QG-T80K

rediffical Bata	पूर्व 100K					
DC input						
Maximum input power	90kWp	105kWp	120kWp			
Maximum DC power of MPPT		18kWp/24kWp				
Number of MPPT		6				
Number of PV string		12				
Maximum input voltage		1100V				
Start-up voltage		200V				
Rated voltage		620V				
MPPT voltage range	180V~1000V					
MPPT full power voltage range	500V~850V 550V~850V					
Maximum input current	6x32A					
Maximum short circuit current	6x45A					
AC output	J					
Rated output power	60kW	70kW	80kW			
· ·		77kVA				
Maximum output power	66kVA 90.9A		88kVA			
Rated output current		106.1A	121.2A			
Maximum output current	100A	116.7A	133.3A			
Nominal output voltage	0401	3P/N/PE, 400Vac	ام سما			
Grid voltage range	310Vac	~480Vac (according to local grid stand	Jaru)			
Nominal output frequency	50Hz/60Hz					
Grid frequency range	45Hz~55Hz / 54Hz~66Hz (according to the local grid standard)					
Output current THD	< 3%					
Output power factor		1 (-0.8~+0.8 adjustable)				
Performance data	_					
Maximum efficiency	98.8%	99.0%	/ 0			
EU efficiency		98.4%				
MPPT efficiency	> 99.9%					
Self-consumption power at night	< 3W					
OC reverse polarity protection	Yes					
DC switch		Yes				
String fault detection		Yes				
Safety protection	Anti-islanding pro	otection, Leakage protection, Ground f	ault monitoring			
Anti backflow protection		Yes				
AFCI protection		Yes				
PID protection		Yes				
Input/Output SPD		PV: type II, AC: type II				
General data						
Operating temperature		-30°C~60°C				
Operating relative humidity		0%~100%				
Noise emission	0%~100% ≤65dB					
Cooling method	≤oodB Intelligent redundant fan-cooling					
Maximum working altitude		4000 m				
Display screen	LCD + LED + APP					
Communication interface	RS485/USB, Optional: WiFi/GPRS/4G/PLC					
Warranty	10 years (extendable)					
ngress protection rating	IP65					
Protective class	Class I					
Weight	52 kg 53 kg					
Dimensions (WxDxH)	52 kg 53 kg 687x275x551 mm					
Certifications and standards		3377E7 37301 11111				
		ENI/1000 / 1/0/0//				
EMC	EN61000-6-1/2/3/4					
Safety standards	IEC/EN 62109-1/2, IEC60255, IEC61140 CEI 0-21/CEI 0-16					





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Easy to install

Pre-wired communication cables for plug and play Parallel installation of up to 10 units 2024 CATALOGUE ONGRID INVERTERS

Technical Data QG-T110K QG-T125K

iecnnicai data	QG-1110K	QG-1125K
DC input		
Maximum input power	150kWp	
Maximum DC power of MPPT	15kWp	
Number of MPPT	10	
Number of PV string	10x2	
Maximum input DC power of MPPT	26A	
Maximum input voltage	1100V	
Start-up voltage	200V	
Rated voltage	620V	720V
MPPT voltage range	180V~1000V	
Maximum input current	10x30A	
Maximum short circuit current	10x40A	
AC output		
Rated output power	110kW	125kW
Maximum output power	121kVA	137.5kVA
Rated output current	158.8A	144.3A
Maximum output current	174.6A	158.8A
Maximum output fault current)4A
Maximum output overcurrent protection	360A peak	
Nominal output voltage	3P/N/PE, 400Vac	3P/N/PE, 500Vac
Grid voltage range	· · · · · · · · · · · · · · · · · · ·	g to the local grid standard)
Nominal output frequency	50Hz/60Hz	
Grid frequency range	45Hz~55Hz / 54Hz~66Hz (according to the local grid standard)	
Output current THD	< 3%	
Output power factor	1 (-0.8~+0.8 adjustable)	
Performance data		
Maximum efficiency	98.7%	99%
EU efficiency	98.3%	98.6%
MPPT efficiency	> 99.9%	> 99.5%
DC reverse polarity protection	Yes	
DC switch	Yes	
AC short circuit protection	Yes	
String fault detection	Yes	
Anti-islanding protection	Yes	
Leakage protection	Yes	
Insulation resistance detection	Yes	
Grid monitor	Yes	
Input/Output SPD	PV: type II, AC: type II	
General data		
Operating temperature	-25°C~60°C	
Operating relative humidity	0%~100%	
Noise emission	≤65dB	
Cooling method	Intelligent redundant fan-cooling	
Maximum working altitude	4000 m	
Display screen	LCD + APP	
Communication interface	RS485/WiFi, GPRS, 4G, PLC (optional)	
Warranty	10 years (extendable)	
Ingress protection rating	IP66	
Protective class	Class I	
Weight	98 kg	
Dimensions (WxDxH)	1055x336x700 mm	
Certifications and standards		
EMC	EN61000-6-1/2/3/4	
Safety standards	IEC/EN 62109-1/2, IEC60255, IEC61140	
Grid connection	CEI 0-21/CEI 0-16	



Chint DDSU666

Single-phase DIN-Rail Smart Meter

High accuracy and low consumption Bi-direction measurement DIN-Rail installation

Nominal voltage (Un): 120V, 220V, 230V, 240V

Operating range: 0.7Un~1.2Un Power consumption: ≤1W, 5VA CT / DC current: 1.5(6)A / 5(80)A Frequency: 50Hz / 60Hz Communication interface: RS485 Communication protocol: Modbus, DL/T

LCD display: 24x14 mm

Weight: 200 g

Dimensions (WxDxH): 36x65x98 mm



Chint DTSU666

Three-phase DIN-Rail Smart Meter

High accuracy and low consumption Bi-direction measurement DIN-Rail installation

Nominal voltage (Un): 3x220/380V, 3x57.7/100V

Operating range: 0.7Un~1.2Un Power consumption: ≤1W, 5VA CT / DC current: 1.5(6)A / 5(80)A Frequency: 50Hz / 60Hz Communication interface: RS485

Communication protocol: Modbus, DL/T

LCD display: 48x16 mm

Weight: 400 g

Dimensions (WxDxH): 72x65x98 mm



Solarman LSW-5

Stick Logger

Independent module, protecting internal parts of inverter Plug and play, no extra power supply is required Waterproof design, resistant to bad weather

Communication: GPRS, WiFi, 4G, Ethernet and others Data interface: RS485/RS232/TTL/USB and others

Antenna: Internal antenna Working voltage: DC 5-12V Working power: 1.5W

Dimensions (WxDxH): 46x30x118 mm



Qudeox Partner Program

Take advantage of the benefits of being our partner and official distributor

We are expanding our brand internationally and welcome distributors to join us on this exciting journey to help users around the world achieve energy independence and sustainability. Join Qudeox Partner Program, become an official distributor of our brand and take advantage of the benefits right from the start.

Exclusive distribution of a growing brand

- → Exclusive distribution of Qudeox brand products by geographical area.
- → Brand and products in growth phase, developed by an expert R&D team.
- → Innovative products certified by TÜV.

Marketing support

- → Product images and datasheets, both in high resolution for printing and optimized for digital use.
- ightarrow Free product catalogues with distributor contact details.
- → Participation in international trade fairs, with booth expenses covered.
- → Paid advertisements in specialized magazines of the energy sector.

Financial backing

- → Assistance with marketing and sales-related expenses.
- → For industrial and commercial energy storage projects, we collaborate with third-party financiers to offer financing to end users purchasing our industrial and commercial ESS.

Training and technical assistance

- → Partners have access to a range of resources for program implementation, from sales to installation and maintenance.
- → Provision of professional technical support with prompt responses.



Notes

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