

GUDEOX

QH-S3~6K Single-phase Hybrid Inverter

3kW / 3.6kW / 4kW / 5kW / 6kW



Efficient and reliable

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, lead-acid and sodium batteries

Pre-wired communication cables for plug and play

Supports single-phase and three-phase flexible parallel installation

| **POWERING A SUSTAINABLE WORLD** |

Technical Data	QH-S3K	QH-S3.6K	QH-S4K	QH-S5K	QH-S6K
Input DC (PV side)					
Recommended maximum PV power	7kW		11kW		
Start-up voltage	100V				
Maximum input voltage	600V				
Rated voltage	330V				
MPPT voltage range	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 / Lead-acid / Sodium				
Battery voltage range	42V~58V				
Battery capacity	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				
Rated output voltage	1P/N/PE, 220V / 230V				
Rated output frequency	50Hz				
Rated output current	14A / 13.5A		23A / 22A		
THDv	<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
Frequency range	45-55Hz / 55-65Hz				
Output AC (Grid side)					
Rated output power	3kW	3.6kW	4kW	5kW	6kW
Maximum apparent output power	3.3kVA	4kVA	4.4kVA	5.5kVA	6.6kVA
Rated grid voltage	1P/N/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 adjustable)				
THDi	<2%				
Performance data					
Maximum efficiency	97.1%				
EU efficiency	96.5%				
Protection	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)				
DC connection	MC4 connector				
AC connection	Quick connection plug				
Display	7.0" LCD color screen display				
Communication	RS485, Wi-Fi, GPRS (optional)				
General data					
Operating temperature	-25°C~60°C				
Ingress protection rating	IP65				
Cooling method	Natural cooling				
Maximum operating altitude	3000 m				
Certifications	EN61000-6-1/2/3/4, IEC/EN 62109-1/2, IEC61140, CEI 0-21				
Weight	20 kg				
Dimensions (WxDxH)	420x235x450 mm				