

Single Phase · Low Voltage Hybrid Inverter

QS 3KW-8KW



Friendly & flexible

- Support multi-machine parallel connection;
- Compatible with lead-acid or lithium-ion batteries or other battery access;



Grace

- Fashion appearance, light weight, smart operation;
- Natural cooling, low noise;
- IP65 , wall mounted design, saving space;



Reliable

- Compatible anti counter flow function;
- Battery reverse connect protection;



Advanced

- Intelligent energy management system for home ;
- Power dispatching and demand side response management node;
- Distributed virtual power station management node;

Technical specification:

Datasheet	QS3KL1-G2	QS3K6L1-G2	QS4KL1-G2	QS4K6L1-G2	QS5KL1-G2	QS6KL1-G2	QS8KL1-G2
DC Input							
Max. Input Power (kW)	4.6	4.6	6	6	7	7	12
Start-up Voltage (V)	120						
Max. PV Voltage(V)	550						
MPPT Range/Nominal (V)	125~500/360						
Max. Input Current(A)	14/14	14/14	14/14	14/14	14/14	14/14	30/15
MPPT Tracker/Strings	2/1	2/1	2/1	2/1	2/1	2/1	2/3
AC output							
Rated Power (kW)	3	3.68	4	4.6	5	6	8
Max. Output Current(A)	13	16	17.4	20	21.7	26	35
Nominal Voltage/Range(V)	230 /176~270						
Frequency (Hz)	50 /60						
Power factor	1(0.8lagging-0.8leading)						
THDi	<3%						
AC output topology	L+N+PE						
Battery							
Battery voltage range(V)	40~58						
Max. charging voltage(V)	58						
Charge/Discharge Current(A)	95/62.2	95/75	95/83.3	95/95.8	95/104.2	95/110	160/160
Communication Interface	CAN						
EPS output							
Rated power (kW)	3	3.6	4	4.6	5	6	8
Rated voltage(V)	230						
Rated current(A)	13	16	17.4	20	21.7	26	35
Rated frequency(Hz)	50 /60						
Automatic switching time(ms)	<20						
THDu	<2%						
Overload capacity	110%, 60S/120%, 30S/150%, 10S						
General data							
Battery charge /discharge efficiency	96.5%						
DC Max. efficiency	98.2%						
Europe efficienc	97.5%						
MPPT efficiency	99.9%						
Ingress protection	IP65						
Noise emission(dB)	<35						
Operation temperature	-25°C~ 60°C						
Cooling	Natural						
Relative Humidity	0 ~95% (non-condensing)						
Altitude	2,000m (>2,000 Derating)						
Dimensions W * D * H (mm)	451*212*474						
Weight(kg)	18						
Inverter Topology	transformerless						
Self-consumption(W)	<3						
Display and communication							
Display	/						
Interface:RS485/Wifi/4G/CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes						