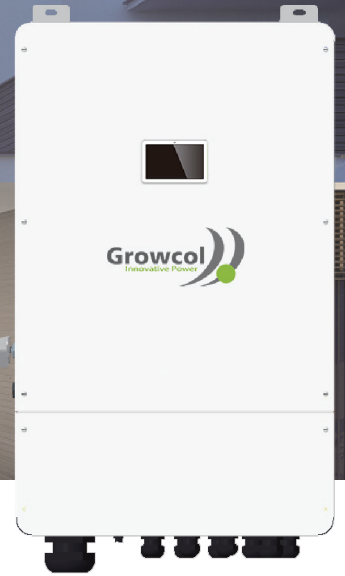


Hybrid Inverter (Low Battery Voltage)

R8KL1



Product features

Grace

- Fashion appearance, light weight, smart operation.
- Natural cooling, low noise.
- IP65 , wall mounted design, saving space.
- Touch screen LCD.

Flexible

- Wide input voltage range.
- Compatible with lead-acid or lithium-ion batteries or other battery.

Advance

- Intelligent energy management system for home.
- Power dispatching and demand side response management.
- Distributed virtual power station management.
- Frequency droop control, Max.8pcs parallel.
- Support storing energy from diesel generator.

Reliable

- Compatible anti counter flow function
- Battery reverse connect protection

Application scenario



Villa&Household



Communication base station



Nomadic area



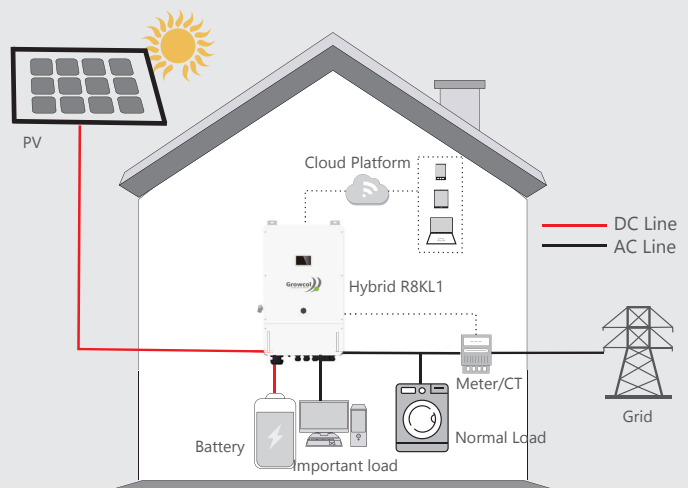
Farm



Field power supply



Product Topology



Technical Data	R8KL1
PV Input Data	
MAX.DC Input Power	12kW
NO.MPPT Tracker	4 (independent)
MPPT Range	120 - 500V
MAX.DC Input Voltage	500V
MAX.Input Current	13A/13A/13A/13A
Battery Input Data	
Nominal voltage (Vdc)	48V
MAX.Charging/Discharging Current	190A/190A
Battery Voltage Range	40-60V
Battery Type	Lithium and Lead Acid Battery
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
AC Output Data(On-Grid)	
MAX. Apparent Power Output to Grid	8.8KVA
Output Voltage	220V, 230 V, 240V
Output Frequency	50/60Hz
Max.AC Current Output to Grid	38.3A
Max.AC Current From Grid	50A
Output Power Factor	0.8leading...0.8lagging
OutPut THDI	< 2%
AC Output Data(Back-Up)	
Nominal. Apparent Power Output	8KVA
Nominal Output Voltage	220V, 230 V, 240V
Nominal Output Frequency	50Hz/60Hz
Output THDU	< 2%
Efficiency	
Europe Efficiency	> =97.8%
MAX. Battery to Load Efficiency	> =97.2%
Protection	
Grounding detection	YES
Arc Fault Protection	YES
Island Protection	YES
Battery reverse Polarity	YES
Insulation Resistor Detection	YES
Residual Current Monitoring Unit	YES
Output Over Current Protection	YES
Back-up Output Short Protection	YES
Terminal temperature detection	YES
Output Over Voltage Protection	YES
Output Under Voltage Protection	YES
General Data	
Output Conduit	25.4mm
PV Input Conduit	25.4mm
BAT Input Conduit	34.5mm
Operating Temperature Range	-25 ~ +60°C
Operating Altitude	0~4,000m
Ingress Protection	IP65
Weight	32kg
Size (W*H*D)	430mm x 710mm x 220mm
Cooling	DC Fan Cooling
Noise emission	<30dB
Communication With BMS/Meter/EMS	RS485, CAN
Supported communication interface	RS485, WLAN, 4G (optional)
Self-consumption at night	< 2.5 W (with battery enabling < 5 W)
Safety	IEC62109-1,2; IEC62477-1
EMC	IEC61000-6-1,2,3,4
Grid connection standards	G99,VDE4105,CEIO-21,NRS