



SOLECTRA
BY SM SOLAR PVT. LTD.

Hybrid Inverter IP-65 Model No. R6KL1-G2~R8KL1-G2



Features

- ✓ Using soft switching technology, the overall machine efficiency is increased by 0.5%.
- ✓ Compact design Save 50% on installation costs.
- ✓ Ultra-low starting voltage, longer power generation time
- ✓ Support mobile phone (Bluetooth +WIFI) setting & maintenance.
- ✓ DUAL AC Output 6.6kVA/8.8kVA (For Smart & Critical Load)
- ✓ IP65 rating for indoor and outdoor installation
- ✓ Net Metering Feed into Grid
- ✓ Built-in timer for various modes of on/off operation
- ✓ Supports colorful touch screen
- ✓ Suitable for the latest 210mm high-power PV panel (Isc=18.5A).



Technical Data	S6KL1H-G2	S8KL1H-G2
PV Input Data		
Max. DC Input Power	9KW	12KW
MPPT Tracker/Strings	2/1	2/1+2
Max. PV Input Voltage	550V	
MPPT Voltage Range	80-500V	
Full Power MPPT Voltage Range	250-425V	
Max. Input Current	16A	
OVC category	II	
Max. Short-circuit Current	18.5A	18.5A/37A
Battery Input Data		
Nominal voltage (Vdc)	48V	
Max. Charging/Discharging Current	120A/120A	160A/160A
Max. Battery Output Power/Duration	/	8KW/20min
Battery Voltage Range	40V-58V	
Battery Type	Lithium or Lead Acid Battery	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
AC Output Data (On-Grid)		
Nominal output power Output to Grid	6kVA/6kW	8kVA/8kW
Max. Apparent Power Output to Grid	6.6kVA	8.8kVA
Nominal Voltage Range	230Vac	
Output Frequency	50/60Hz	
Max.AC Current Output to Grid	28.7A	38.3A
Output Power Factor	1 (0.8leading...0.8lagging)	
Output THDI	< 3%	
Max. feedback current	40.9A	45.5A
Max. output overcurrent protection	40.9A	45.5A
OVC category	III	
Inrush Current	86.1A@3um	114.9A@3um
Maximum output fault current	86.1A@3um	114.9A@3um
AC Input Data (On-GEN)		
Max. input power	6kw	8kw
Max. discharge power	6kw	8kw
Max. input current	28.7A	34.8A
The max. input current of the generator to the battery	14.4A	17.4A
AC Output Data (LOAD)		
Output Voltage Rated	230Vac	
Nominal Output Frequency	50/60Hz	
Output THDU	< 2%	
Efficiency		
Europe Efficiency	>=97%	
MPPT Efficiency	99.9%	
Battery Charge/Discharge Efficiency	96%	
DC. Max. Efficiency	98%	
Protection		
Island Protection	YES	
Insulation Resistor Detection	YES	
Residual Current Monitoring Unit	YES	
Output Over Current Protection	YES	
Load Output Short Protection	YES	
Output Over and Under Voltage Protection	YES	
General Data		
Grid and off grid switching time	10ms	
Operating Temperature Range	-25 ~ +60°C	
Relative Humidity	0-95%	
Operating Altitude	0~2000m (Derating over 2000m)	
Ingress Protection	IP65	
Weight	22kg	23kg
Size (Width*Depth*Height)	454*200*467mm/ 454*200*499.7mm	484*200*467mm/ 484*200*499.7mm
Cooling	Natural Convection	
Noise emission	<35dB	
Display	Color screen(option)	
Communication With RS485/Wi-Fi/GPRS/CAN/DRM	possess/optional/optional/possess/possess	
Standby loss	< 15W	
Compliance	UL17415B, IEEEE1547-2018, UL1699B UL1998, IEC62109-11-2, EN61000-6-1	
Grid connection standards	EN50549, AS4777.2, VDE0126, IEC61727 VDEN4105, CE	
Pollution degree	II	
Topology	Non-isolated	