

# Hybrid Inverter

R5KL1-G2

 Mainwatt®



## General data

Battery Charge /Discharge Efficiency	96 %
DC Max. Efficiency	98 %
Europe Efficiency	97 %
MPPT Efficiency	99.9 %
Ingress Protection	IP65
Noise Emission(dB)	<35
Operation Temperature (°C)	-25~60
Cooling	Natural
Relative Humidity	0 ~95% (non-condensing)
Altitude	2,000 m (>2,000 Derating)
Dimensions W × D × H (mm)	451×200×474
Weight (kg)	18
Inverter Topology	transformerless
Self-consumption (W)	<3

## DC Input

Max. Input Power (kW)	7.5
Start-up Voltage (V)	100
Max. PV Voltage (V)	550
MPPT Range/Nominal (V)	80~500/360
Max. Input Current(A)	16/16
NO. of MPPT Trackers	2
NO. of Strings Per MPPT Trackers	1/1

## AC Output

Rated Power (kW)	5
Max. Apparent Power Output to Grid(kVA)	5
Max. Output Current(A)	21.7
Nominal Voltage/Range(V)	230 /176~270
Nominal Voltage/Range(V)	50/60
Power Factor	0.8 lagging-0.8 leading
THDi	<3%
AC Output Topology	L+N+PE

## Battery

Battery Voltage Range (V)	40~58
Max. Charging Voltage (V)	58
Max. Charge/Discharge Current(A)	100/100
Battery Type	Lithium / Lead-acid
Communication Interface	CAN

## EPS output

Rated Power (kW)	5
Rated Voltage (V)	230
Max. Output Current (A)	21.7
Rated Frequency (Hz)	50/60
Automatic Switching Time (ms)	<10
THDu	<2%
Overload Capacity	110%, 60S/120%, 30S/150%, 10S