

On-grid Inverters

R3 Max Series

120kW / 150kW

Three Phase, 10 / 12 MPPTs



FEATURES



150% DC input oversizing



IP66 outdoor design



String monitoring and shorter O&M time



Up to 10 / 12 MPPTs



Remote firmware upgrade



Remote active / reactive power limit control

Model	R3-120K-L1	R3-150K-HV-L1
PV Input Data		
Recommended Max. PV Power [Wp]	180000	225000
Max. PV Input Voltage [V]	1100	
MPPT Voltage Range [V]	180 ~ 1000	
Rated Input Voltage [V]	620	750
Start-up Voltage [V]	250	
No. of MPP Trackers	10	12
No. of Input Strings per Tracker	2	2
Max. PV Input Current per MPPT [A]	30	30
Max. Short-circuit Current per MPPT [A]	50	50
DC Switch	Integrated	
AC Output Data		
Rated AC Power [kW]	120@25°C, 110@45°C, 100@50°C	150@25°C, 136@40°C, 120@50°C
Max. Output Power [VA]	121000	150000
Max. AC Current [A]	174.6	173.2
Rated AC Voltage / Range [V]	3 / N / PE, 230 / 400Vac; 320 ~ 480V	3 / PE, 500Vac; 400 ~ 621V
Grid Frequency / Range [Hz]	50 / 60; ±5	
Adjustable Power Factor [cosφ]	0.8 leading ~ 0.8 lagging	
Output THDi (@Rated Output)	< 3%	
Efficiency		
Max. Efficiency	99.00%	99.00%
Euro Efficiency	98.50%	98.50%
General Data		
Size (Width * Height * Depth) [mm]	1055 * 700 * 336	
Weight [kg]	93	110
User Interface	LED	
Communication	RS485 or Wifi or 4G (optional)	
Ambient Temperature Range [°C]	-25 ~ +60	
Relative Humidity	0 ~ 100%	
Operating Altitude [m]	≤ 2000	
Standby Self Consumption [W]	< 15	
Topology	Transformerless	
Cooling	Fan	
Enclosure	IP66	
Noise [dB]	≤ 60	≤ 70
Warranty [years]	5 / 7 / 10	
Certifications & Standards		
Grid Regulation	IEC 61727, IEC 62116	
Safety Regulation	IEC 62109-1, IEC 62109-2	
EMC	EN 61000-6-2, EN 61000-6-4	
Protection		
	<ul style="list-style-type: none"> • DC Insulation Monitoring • Residual Current Monitoring • Input Reverse Polarity Protection 	<ul style="list-style-type: none"> • AC Overvoltage Protection • AC Overcurrent Protection • AC Short-circuit Protection
		<ul style="list-style-type: none"> • Anti-island Protection • Over-heat Protection • DC / AC Surge Protection