

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	R3-150K-HV	
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	780	
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]	40	40	
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]	176.4	174.5	
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			
	• DC Insulation Monitoring	• AC Overvoltage Protection	• Anti-island Protection
	• Residual Current Monitoring	• AC Overcurrent Protection	• Over-heat Protection
	• Input Reverse Polarity Protection	• AC Short-circuit Protection	• DC / AC Surge Protection