

On-grid Inverters

R3 Pre Series

10kW / 15kW / 17kW / 20kW / 25kW

Three Phase, 2 MPPTs



FEATURES



Compatible with 500W+ PV modules



Wider MPPT voltage range (150 ~ 1000V)



Remote firmware upgrade



150% DC input oversizing



Maximum DC input voltage 1100V



Built-in zero export function

R3 Pre Series

Model	R3-10K-G5	R3-15K-G5	R3-17K-G5	R3-20K-G5	R3-25K-G5	R3-25K-G5-P
PV Input Data						
Max. Recommended PV Power [Wp]	15000	22500	25500	30000	37500	37500
Max. PV Power for Single MPPT [Wp]	7500	13500 / 9000	12750	15000	18750	18750
Max. PV Input Voltage [V]	1100					
MPPT Voltage Range [V]	150 ~ 1000					
Rated Input Voltage [V]	630					
Start-up Voltage [V]	165					
No. of MPP Trackers	2					
No. of Input Strings per Tracker	1 / 1	2 / 1	2 / 2	2 / 2	2 / 2	2 / 2
Max. PV Input Current [A]	20 / 20	30 / 20	30 / 30	30 / 30	30 / 30	37.5 / 30
Max. Short-circuit Current per MPPT [A]	26 / 26	39 / 26	39 / 39	39 / 39	39 / 39	49 / 39
DC Switch	Integrated					
AC Output Data						
Rated AC Power [W]	10000	15000	17000	20000	25000	25000
Max. Output Power [VA]	11000	16500	18700	22000	27500	27500
Max. AC Current [A]	16	24	27.1	31.9	40	40
Rated AC Voltage / Range [V]	3 / N / PE, 380, 400; ±20%					
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	98.30%	98.30%	98.40%	98.50%	98.50%	98.50%
Euro Efficiency	98.00%	98.00%	98.10%	98.20%	98.20%	98.20%
General Data						
Size (Width * Height * Depth) [mm]	506 * 386 * 185					
Weight [kg]	23					
User Interface	LCD					
Communication	RS485 or Wifi or 4G (optional)					
Ambient Temperature Range [°C]	-25 ~ +60					
Relative Humidity	0 ~ 100%					
Operating Altitude [m]	≤ 4000					
Standby Self Consumption [W]	< 0.2					
Topology	Transformerless					
Cooling	Natural	Natural	Fan	Fan	Fan	Fan
Enclosure	IP65					
Noise [dB]	< 30			< 45		
Warranty [years]	5 / 7 / 10					
Certifications & Standards						
Grid Regulation	IEC 61727, IEC 62116, IEC 60068, IEC 61683					
Safety Regulation	IEC 62109-1, IEC 62109-2					
EMC	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12, IEC 61000-4-16, IEC 61000-4-18, IEC 61000-4-29					
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	