





R3 Pre Series


Model	R3-10K-G5	R3-15K-G5	R3-17K-G5	R3-20K-G5	R3-25K-G5
DC Input Data					
Max. Recommended PV Power [Wp]	15000	22500	25500	30000	37500
Max.DC 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
Max. DC Input Current [A]	20 / 20	30 / 20	30 / 30	30 / 30	30 / 30
Max.short-circuit current per MPPT [A]	26/26	39/26	39/39	39/39	39/39
DC Switch			Integrated		
AC Output Data					
Rated AC Power [W]	10000	15000	17000	20000	25000
Max.output power [VA]	11000	16500	18700	22000	27500
Max. AC Current [A]	16	24	27.1	31.9	40
Rated AC Voltage / Range			3/PE 380, 400; +/-20%; 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%
Euro Efficiency	98.00%	98.00%	98.10%	98.20%	98.20%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%	99.90%
General Data					
Size(Width*Height*Depth) [mm]			506 × 386 × 185		
Weight [KG]			23		
User Interface			LCD		
Communication			RS485 (Standard), Wifi or GPRS		
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
Protection Grades			IP65		
Noise [dB]		< 30		< 45	
Warranty [years]			5 / 7 / 10		
Certifications & Standards					
Grid Regulation			IEC61727, IEC62116, IEC60068, IEC61683		
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, IEC61000-4-16, IEC61000-4-18, IEC61000-4-29		
Protection					
	* DC Insulation Monitoring		* Over-heat Protection		* DC Surge Protection
	* Input Reverse Polarity Protection		* AC Overcurrent Protection		* AC Surge Protection
	* Anti-island Protection		* AC Short-circuit Protection		
	* Residual Current Monitoring		* AC Overvoltage Protection		




37.5A INPUT CURRENT PER MPPT




50% DC OVERSIZING




SAFE & RELIABLE



MAXIMUM DC INPUT VOLTAGE 1100V



110% LONG-TIME OVERLOAD ABILITY



BUILT-IN ZERO EXPORT FUNCTION (OPTIONAL)



On-grid Inverters R3 Pre Series

10KW / 15KW / 17KW / 20KW / 25KW
Three Phase, 2 MPPT

The R3 Pre series inverter is especially designed for three-phase residential and small commercial projects. With its compact design, the R3 Pre series inverter is 40% lighter than the previous generation. The maximum conversion efficiency can reach 98.5%. The maximum input current of each string reach to 20A, which can be perfectly adapted to high power module to increase the power generation.