



R3 Max Series

Model	R3-120K	R3-150K-HV
DC Input Data		
Max. Recommended PV Power [Wp]	180000	225000
Max.DC Input Voltage [V]		1100
MPPT voltage Range [V]		200 ~ 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. DC Input Current Per MPPT [A]	26	26
Max.short-circuit current per MPPT [A]	40	40
DC Switch		Integrated
AC Output Data		
Rated AC Power [kW]	120@25°C , 110@40°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	3W+N+PE, 230 / 400Vac; 320 ~ 480V	3W+PE, 500Vac; 400 ~ 621V
Grid frequency / range [Hz]		50 / 60; ±5
Adjustable Power Factor [cosφ]		0.8leading ~ 0.8lagging
Output THDi (@Rated Output)		< 3%
Efficiency		
Max.Efficiency	98.70%	99.00%
Euro Efficiency	98.30%	98.50%
MPPT Efficiency	99.90%	99.90%
General Data		
Size (Width*Height*Depth) [mm]		1055 × 700 × 336
Weight [KG]	98	110
User Interface		LED Indicator, Bluetooth + APP
Communication		RS485 (Standard), Wifi or GPRS
Ambient Temperature Range [°C]		-25 ~ 60
Relative Humidity		0 ~ 100%
Operating Altitude [m]		≤ 4000
Standby Self Consumption [W]		< 1
Topology		Transformerless
Cooling		Fan Cooling
Protection Grades		IP66
Noise [dB]	≤ 60	≤ 70
Warranty [years]		5 / 7 / 10
Certifications & Standards		
Grid Regulation		IEC61727, IEC62116
Safety Regulation		IEC 62109-1, IEC 62109-2
EMC		EN 61000-6-2, EN 61000-6-4
Protection		
* DC Insulation Monitoring	* Input Reverse Polarity Protection	* Anti-island Protection
* Residual Current Monitoring	* Over-heat Protection	* AC Overcurrent Protection
	* AC Short-circuit Protection	* AC Surge Protection
	* AC Overvoltage Protection	

- MAX.DC/AC RATIO UP TO 1.5
- 10/12 MPPTS
- Smart I-V Curve Function
- DC & AC TYPE II SPD
- AFCI FUNCTION OPTIONAL
- 1100Vdc, 400/500Vac

On-grid Inverters

R3 Max Series

120KW / 150KW
Three Phase, 10 / 12 MPPT

Renac R3 Max Series 120-150 kW three phase series string inverter adopt 10/12 MPPT design to provide a more flexible configuration scheme. The maximum input current of each string reach to 13A, which can be perfectly adapted to high power module to increase the power generation. Configuration can be easily done via Bluetooth. Smart I-V Curve Function, Night SVG Function, making the O&M easier.

