

# R3 Max Series

RENAC

## On-grid Inverter

100-125kW, Three Phase



Remote Firmware Update



Optional AFCI & Smart PID recovery function



Export control function integrated



- ▶ 150% PV input oversizing & 110% AC overloading
- ▶ Type II SPD for both DC and AC
- ▶ IP66 outdoor design
- ▶ String monitoring and shorter O&M time

Model	R3-100K	R3-110K	R3-125K
<b>PV Input</b>			
Max. Recommended PV Power [Wp]	150000	165000	187500
Max. PV Input Voltage [V]		1100	
Rated PV Input Voltage [V]		650	
Start-up Voltage [V]		200	
MPPT Voltage Range [V]		200 ~ 1000	
No. of MPP Trackers	9	9	9
No. of Input Strings per Tracker	2	2	2
Max. PV Input Current per MPPT [A]	32	32	32
Max. Short-circuit Current per MPPT [A]	48	48	48
<b>AC Output</b>			
Rated AC Output Power [W]	100000	110000	125000
Max. AC Output Apparent Power [VA]	110000	121000	125000
Max. AC Output Current [A]	159.4	175.4	181.2
Rated AC Voltage [V]		3 / N / PE, 220 / 380, 230 / 400	
Grid Frequency [Hz]		50 / 60	
Adjustable Power Factor [cos φ]		0.8 leading ~ 0.8 lagging	
Output THDi (@Rated Output)		< 3%	
<b>Efficiency</b>			
Max. Efficiency	98.7%	98.7%	98.7%
Euro Efficiency	98.3%	98.3%	98.3%
<b>Protection</b>			
DC Insulation Monitoring		Integrated	
Input Reverse Polarity Protection		Integrated	
Anti-island Protection		Integrated	
Residual Current Monitoring		Integrated	
AC Overcurrent Protection		Integrated	
AC Short-circuit Protection		Integrated	
String Current Monitoring		Integrated	
DC Surge Protection		Integrated (Type II)	
AC Surge Protection		Integrated (Type II)	
AFCI Protection		Optional	
PID Recovery Function		Optional	
DC Switch		Integrated	
<b>General Data</b>			
Dimensions (W * H * D) [mm]		965 * 700 * 355	
Weight [kg]	88	88	88
Display		LED	
Communication		RS485 (Standard), WiFi	
Ambient Temperature Range [°C]		-30 ~ +60	
Relative Humidity		0 ~ 100%	
Operating Altitude [m]		≤ 4000	
Night Self-consumption [W]		< 1	
Topology		Transformerless	
Cooling		Fan	
Ingress Protection		IP66	
<b>Certifications &amp; Standards</b>			
Grid Regulation		EN 50549-2, EN 50549-GR	
Safety Regulation		IEC 62109-1, IEC 62109-2	
EMC		EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, EN 62920	