RENAC

On-grid Inverters

R3 Plus Series

60kW / 70kW / 75kW / 80kW
Three Phase, 3 / 4 MPPTs

FEATURES

- 150% DC input oversizing
- IP65 outdoor design
- String monitoring and shorter O&M time
- 110% AC overloading
- Remote firmware upgrade
- Remote active / reactive power limit control

R3 Plus Series

Model	NAC60K	NAC70K	NAC75K	NAC80K
PV Input Data				
Max. Recommended PV Power [Wp]	90000	105000	112500	120000
Max. PV Input Voltage [V]	1100			
MPPT Voltage Range [V]	200 ~ 1000			
Rated Input Voltage [V]	620			
Start-up Voltage [V]	250			
No. of MPP Trackers	3	4	4	4
No. of Input Strings per Tracker	4 / 4 / 4	3 / 3 / 3 / 3	4 / 4 / 3 / 3	4 / 4 / 3 / 3
Max. PV Input Current [A]	44 / 44 / 44	35 / 35 / 35 / 35	44 / 44 / 35 / 35	44 / 44 / 35 / 35
Max. Short-circuit Current per MPPT [A]	46 / 46 / 46	46 / 46 / 46 / 46	60 / 60 / 46 / 46	60 / 60 / 46 / 46
DC Switch	Integrated			
AC Output Data				
Rated AC Power [W]	60000	70000	75000	80000
Max. Output Power [VA]	66000	77000	75000	88000
Max. AC Current [A]	95.3	111.1	109	127
Rated AC Voltage / Range [V]	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	99.00%	99.00%	99.00%	99.00%
Euro Efficiency	98.37%	98.50%	98.50%	98.50%
General Data				
Size (Width * Height * Depth) [mm]	630 * 815 * 260	640 * 841 * 285		
Weight [kg]	63	76	79	79
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]	< 1			
Topology	Transformerless			
Cooling	Fan			
Enclosure	IP65			
Noise [dB]	< 60			
Warranty [years]	5 / 7 / 10			
Certifications & Standards				
Grid Regulation	PEA, MEA, 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	