



R3 Plus Series

Model	NAC50K	NAC60K	NAC70K	NAC75K	NAC80K
DC Input Data					
Max. Recommended PV Power [Wp]	75000	90000	105000	112500	120000
Max.DC Input Voltage [V]	1000	1100	1100	1100	1100
MPPT voltage Range [V]	200 - 950	200 - 1000	200 - 1000	200 - 1000	200 - 1000
Rated Input Voltage [V]			620		
Start-up Voltage [V]			250		
No. of MPP Trackers	3	3	4	4	4
No. of Input Strings per Tracker	4 / 4 / 4	4 / 4 / 4	3 / 3 / 3 / 3	4 / 4 / 3 / 3	4 / 4 / 3 / 3
Max. DC Input Current [A]	44/44/44	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	46/46/46/46	60/60/46/46	60/60/46/46
DC Switch			Integrated		
AC Output Data					
Rated AC Power [W]	50000	60000	70000	75000	80000
Max.output power [VA]	55000	66000	77000	75000	88000
Max. AC Current [A]	79.4	95.3	111.1	109	127
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	99.00%	99.00%	99.00%	99.00%	99.00%
Euro Efficiency	98.37%	98.37%	98.50%	98.50%	98.50%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%	99.90%
General Data					
Size (Width*Height*Depth) [mm]	630*815*260	630 × 815 × 280	640 × 841 × 285	640 × 841 × 285	640 × 841 × 285
Weight [KG]	62	63	76	79	79
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]			< 1		
Topology			Transformerless		
Cooling			Fan Cooling		
Protection Grades			IP65		
Noise [dB]			< 60		
Warranty [years]			5 / 7 / 10		
Certifications & Standards					
Grid Regulation			PEA, MEA, IEC61727, IEC62116		
Safety Regulation			IEC 62109-1, IEC 62109-2		
EMC			EN 61000-6-2, EN 61000-6-4		
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		

50% DC INPUT
OVERSIZING

3-4 MPPTS

IP65 RATED

REMOTE MONITORING

STRING MONITORING
AND SHORTER O&M TIME

REMOTE ACTIVE /
REACTIVE POWER
LIMIT CONTROL



On-grid Inverters R3 Plus Series

50KW / 60KW / 70KW / 75KW / 80KW
Three Phase, 3-4 MPPT

RENAC R3 Plus Series inverter is ideal for medium to large sized commercial projects, especially for large-scale commercial roofs and farm plants. The range applies advanced topology and innovative control technology to achieve a maximum efficiency of 99.0% and maximum long-term returns and profitability for project owners.