





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.

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	620V				
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
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			