



NATURAL COOLING,
MUTE OPERATION



50% DC INPUT
OVERSIZING



REMOTE MONITORING



IP65 RATED



WIDE MPPT RANGE
(160-950V)



BUILT-IN ZERO
EXPORT FUNCTION
(OPTIONAL)



On-grid Inverters

R3 Note Series

4KW / 5KW/ 6KW / 8KW / 10KW / 12KW / 15KW
Three Phase, 2 MPPT

RENAC R3 Note Series inverter is one of the best options available in the residential and commercial sectors by its technical strengths, which make it be one of the most productive inverters in the market. With the high efficiency of (98.3%), enhanced oversizing and overloading capabilities, R3 Note Series represents an outstanding improvement in the inverter industry.

R3 Note Series

Model	R3-4K-DT	R3-5K-DT	R3-6K-DT	R3-8K-DT	R3-10K-DT	R3-12K-DT	R3-15K-DT
DC Input Data							
Max. Recommended PV Power [Wp]	6000	7500	9000	12000	15000	18000	22500
Max.DC Input Voltage [V]	1000	1000	1000	1000	1000	1000	1000
MPPT voltage Range [V]	160 ~ 950	160 ~ 950	160 ~ 950	250 ~ 950	250 ~ 950	250 ~ 950	250 ~ 950
Start-up Voltage [V]	160	160	160	200	200	200	200
No. of MPP Trackers				2			
No. of Input Strings per Tracker	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	2 / 1
Max. DC Input Current [A]	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5	20 / 12.5
DC Switch				Integrated			
AC Output Data							
Rated AC Power [W]	4000	5000	6000	8000	10000	12000	15000
Max.output power [VA]	4400	5500	6600	8800	11000	13200	16500
Max. AC Current [A]	6.4	8	9.6	12.8	16.0	19.2	24.0
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	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%
Euro Efficiency	97.60%	97.60%	97.60%	97.60%	97.80%	97.80%	97.80%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%
General Data							
Size (Width*Height*Depth) [mm]	455 x 390 x 160				455 x 390 x 175		455 x 390 x 190
Weight [KG]	16.3				18.3		21.6
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]				< 0.2			
Topology				Transformerless			
Cooling				Natural Convection			
Protection Grades				IP65			
Noise [dB]				< 30			
Warranty [years]				5 / 7 / 10			
Certifications & Standards							
Grid Regulation	C10/11, PEA, MEA, G98, G99, EN50549, CEI0-21, CEI0-16, IEC61727, IEC62116, IEC60068, IEC61683						
Safety Regulation	IEC 62109-1, IEC 62109-2						
EMC	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12, IEC61000-4-16, IEC61000-4-18, IEC61000-4-29						
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				