

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 (98.5%), enhanced oversizing and overloading capabilities, R3 Note Series represents an outstanding improvement in the inverter industry.



NATURAL COOLING,  
MUTE OPERATION



50% DC INPUT  
OVERSIZING



REMOTE MONITORING



IP65 RATED



WIDE MPPT RANGE  
(140-950V)



BUILT-IN ZERO  
EXPORT FUNCTION  
(OPTIONAL)



# 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 Power for Single MPPT [Wp]	3000	3750	4500	6000	7500	9000	15000 / 7500
Max. DC Input Voltage [V]				1000			
MPPT Voltage Range [V]				140 ~ 950			
Rated Input Voltage [V]				630			
Start-up Voltage [V]				160			
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]	16 / 16	16 / 16	16 / 16	16 / 16	16 / 16	16 / 16	20 / 16
Max. Short-circuit Current per MPPT [A]	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20	26 / 20
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 [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	98.40%	98.40%	98.40%	98.50%	98.50%	98.50%	98.50%
Euro Efficiency	97.80%	97.80%	97.80%	98.00%	98.00%	98.00%	98.00%

### 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, EN 50549, CEI 0-21, CEI 0-16, IEC 61727, IEC 62116, IEC 60068, IEC 61683
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, IEC 61000-4-16, IEC 61000-4-18, IEC 61000-4-29

### Protection

- DC Insulation Monitoring
- Input Reverse Polarity Protection
- Anti-island Protection
- Residual Current Monitoring
- Over-heat Protection
- AC Overcurrent Protection
- AC Short-circuit Protection
- AC Overvoltage Protection
- DC Surge Protection
- AC Surge Protection