



NATURAL COOLING,
MUTE OPERATION



REMOTE MONITORING



COMPACT SIZE



IP65 RATED



EASY INSTALLATION



BUILT-IN ZERO
EXPORT FUNCTION
(OPTIONAL)



On-grid Inverters

R1 MINI Series

1.1KW / 1.6KW / 2.2KW / 2.7KW / 3.3KW / 3.7KW
Single Phase, 1 MPPT

RENAC R1 Mini Series inverters are ideal choices for residential projects with higher power density, wider input voltage range for more flexible installation and a perfect match for high power PV panels.

Model	R1-1K1-SS	R1-1K6-SS	R1-2K2-SS	R1-2K7-SS	R1-3K3-SS	R1-3K7-SS
DC Input Data						
Max. Recommended PV Power [Wp]	1400	2400	2800	3500	4200	4800
Max.DC Input Voltage [V]	500	500	500	550	550	550
MPPT voltage Range [V]	50 ~ 500	50 ~ 500	50 ~ 500	50 ~ 550	50 ~ 550	50 ~ 550
Start-up Voltage [V]			70			
No. of MPP Trackers			1			
No. of Input Strings per Tracker			1			
Max. DC Input Current [A]			12.5			
DC Switch			Optional			
AC Output Data						
Rated AC Power [W]	1100	1600	2200	2700	3300	3680
Max.output power [VA]	1100	1600	2200	2700	3300	3680
Max. AC Current [A]	4.8	7.2	9.6	12	14.4	16
Rated AC Voltage / Range [V]			220 / 230; 160 - 290			
Grid frequency / range [Hz]			50 / 60; ±5			
Adjustable Power Factor [cos φ]			0.8 leading - 0.8 lagging			
Output THDi (@Rated Output)			≤2%			
Efficiency						
Max.Efficiency	97.00%	97.10%	97.10%	97.30%	97.30%	97.30%
Euro Efficiency	96.50%	96.60%	96.60%	96.80%	96.80%	96.80%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%
General Data						
Size (Width*Height*Depth) [mm]			295 x 260 x 115			335 x 260 x 120
Weight [KG]	6.8	6.8	6.8	6.8	6.8	7.5
User Interface			LCD			
Communication			RS485 or 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	VDE 0126-1-1, G98, EN50549, C10 / 11, PEA, MEA, AS4777, CE10-21, IEC61727, IEC62116, IEC60068, IEC61683					
Safety Regulation	IEC 62109-1, IEC 62109-2					
EMC	EN 61000-3-2, EN 61000-3-3, EN61000-6-1, EN61000-6-3, 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			