




R1 Macro Series

Model	NAC4K-DS	NAC5K-DS	NAC6K-DS
DC Input Data			
Max. Recommended PV Power [Wp]	5200	6500	7800
Max.DC Input Voltage [V]		600	
MPPT voltage Range [V]		100 - 550	
Rated Input Voltage [V]		360	
Start-up Voltage [V]		120	
No. of MPP Trackers		2	
No. of Input Strings per Tracker	1 / 1	1 / 1	1 / 1
Max. DC Input Current [A]	16 / 16	16 / 16	16 / 16
Max.short-circuit current per MPPT	20 / 20	20 / 20	20 / 20
DC Switch		Optional	
AC Output Data			
Rated AC Power [W]	4000	5000	6000
Max.output power [VA]	4400	5500	6600
Max. AC Current [A]	19.2	24	28.7
Rated AC Voltage / Range [V]		220 / 230; 160 - 290	
Grid frequency / range [Hz]		50 / 60; ±5	
Adjustable Power Factor [cosφ]		0.8 leading - 0.8 lagging	
Output THDi (@Rated Output)		≤ 2%	
Efficiency			
Max.Efficiency	97.80%	97.80%	97.80%
Euro Efficiency	97.20%	97.20%	97.20%
MPPT Efficiency	99.90%	99.90%	99.90%
General Data			
Size (Width*Height*Depth) [mm]		395 x 330 x 185	
Weight [kg]	12	12	12
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	VDE 0126-1-1, C10 / 11, G99, PEA, MEA, AS4777, EN50549, CEI0-21, EC61727, IEC62116, IEC60068, IEC61683, ABNT NBR 16150		
Safety Regulation	IEC 62109-1, IEC 62109-2		
EMC	EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12, EN 61000-6-2, EN 61000-6-3, IEC61000-4-16, IEC61000-4-18, IEC61000-4-29		
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



NATURAL COOLING,
MUTE OPERATION



REMOTE MONITORING



30% DC OVERSIZING



IP65 RATED



EASY INSTALLATION



BUILT-IN ZERO
EXPORT FUNCTION
(OPTIONAL)



On-grid Inverters R1 Macro Series

4kW / 5kW / 6kW
Single Phase, 2 MPPT

RENAC R1 Macro Series is a single-phase on-grid inverter with excellent compact size, comprehensive software and hardware technology. The R1 Macro Series offers high efficiency and class-leading functional fan-less, low-noise design.