



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 | | 360V | |
| 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.