

On-grid Inverters

R1 Macro Series

4kW / 5kW / 6kW

Single Phase, 2 MPPTs



FEATURES



Natural cooling for mute operation



130% DC input oversizing



Remote firmware upgrade



IP65 outdoor design



Up to 97.8% max. efficiency



Built-in zero export function

Model	NAC4K-DS		NAC5K-DS	NAC6K-DS
PV Input Data				
Recommended Max. PV Power [Wp]	6000		7500	9000
Max. PV Power for Single MPPT [Wp]	4000		4000	4000
Max. PV 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. Input Current per MPPT [A]	16 / 16	16 / 16	16 / 16	
Max. Short-circuit Current per MPPT [A]	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	6000
Max. AC Current [A]	20		25	27.3
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)	< 3%			
Efficiency				
Max. Efficiency	97.80%		97.80%	97.80%
Euro Efficiency	97.20%		97.20%	97.20%
General Data				
Size (Width * Height * Depth) [mm]	330 * 395 * 185			
Weight [kg]	12			
User Interface	LCD			
Communication	RS485 or Wifi or 4G (optional)			
Ambient Temperature Range [C]	-25 ~ +60			
Relative Humidity	0 ~ 100%			
Operating Altitude [m]	≤ 2000			
Standby Self Consumption [W]	< 1			
Topology	Transformerless			
Cooling	Natural			
Enclosure	IP65			
Noise [dB]	< 25			
Warranty [years]	5 / 7 / 10			
Certifications & Standards				
Grid Regulation	VDE 0126-1-1, C10 / 11, G99, PEA, MEA, AS 4777, EN 50549, CEI 0-21, IEC 61727, IEC 62116, IEC 60068, IEC 61683, 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, IEC 61000-4-16, IEC 61000-4-18, IEC 61000-4-29			
Protection				
	• DC Insulation Monitoring	• AC Overvoltage Protection	• Anti-island Protection	
	• Residual Current Monitoring	• AC Overcurrent Protection	• Over-heat Protection	
	• Input Reverse Polarity Protection	• AC Short-circuit Protection	• DC / AC Surge Protection	