

On-grid Inverters

R3 Note Series

4kW / 5kW / 6kW / 8kW / 10kW / 12kW
Three Phase, 2 MPPTs



-  Natural cooling for mute operation
-  Wider MPPT voltage range (140 ~ 1000V)
-  Remote firmware upgrade
-  IP65 outdoor design
-  150% DC input oversizing
-  Built-in zero export function



Model	R3-4K	R3-5K	R3-6K	R3-8K	R3-10K-A	R3-10K	R3-12K
PV Input Data							
Recommended Max. PV Power [Wp]	6000	7500	9000	12000	15000	15000	18000
Max. PV Input Voltage [V]				1100			
MPPT Voltage Range [V]				140 ~ 1000			
Rated Input Voltage [V]				600			
Start-up Voltage [V]				160			
No. of MPP Trackers				2			
No. of Input Strings per Tracker				1 / 1			
Max. Input Current Per MPPT [A]				16 / 16			
Max. Short-circuit Current per MPPT [A]				20 / 20			
AC Output Data							
Rated AC Power [W]	4000	5000	6000	8000	10000	10000	12000
Max. Output Power [VA]	4400	5500	6600	8800	10000	11000	13200
Max. AC Current [A]	6.7	8.4	10	13.4	15.2	16.7	20
Rated AC Voltage / Range [V]	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	98.4%	98.4%	98.4%	98.5%	98.5%	98.5%	98.5%
Euro Efficiency	97.5%	97.5%	97.5%	98%	98%	98%	98%
Protection							
DC Switch				Integrated			
DC Insulation Monitoring				Integrated			
Input Reverse Polarity Protection				Integrated			
Anti-island Protection				Integrated			
Residual Current Monitoring				Integrated			
AC Overcurrent Protection				Integrated			
AC Short-circuit Protection				Integrated			
AFCI Protection				Optional			
Anti-PID function				Optional			
DC Surge Protection				Integrated (Type II)			
AC Surge Protection				Integrated (Type II)			
General Data							
Size (Width * Height * Depth) [mm]				428 * 385 * 185			
Weight [kg]				15			
User Interface				LED + OLED			
Communication				RS485 and USB (Standard), 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]				< 35			
Warranty [years]				5 / 7 / 10			
Certifications & Standards							
Grid Regulation	NB/T 32004-2018, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4015, UNE 217001, UNE 206007, PO 12.2, UTE C15-712, ABNT NBR 16149, ABNT NBR 16150, ABNT NBR 62116, EN 50549, IEC 61727, IEC 62116						
Safety Regulation	IEC 62109-1, IEC 62109-2						
EMC	EN 61000-1, EN 61000-2, EN 61000-3, EN 61000-4						