

Residential On-grid Inverter

R3 Note Series

4kW / 5kW / 6kW / 8kW / 10kW / 12kW



Features

Three Phase, 2 MPPTs

-  Compatible with 500W+ PV modules
-  Optional AFCI & Smart PID recovery function
-  150% PV input oversizing & 110% AC overloading
-  Wider MPPT voltage range (140 ~ 1000V)
-  Remote firmware upgrade
-  Type II SPD for both DC and AC



Model	R3-4K	R3-5K	R3-6K	R3-8K	R3-10K-A	R3-10K	R3-12K
PV Input							
Max. Recommended PV Power [Wp]	6000	7500	9000	12000	15000	15000	18000
Max. PV Power for Single MPPT [Wp]	3000	3750	4500	6000	7500	7500	9000
Max. PV Input Voltage [V]	1100						
MPPT Voltage Range [V]	140 ~ 1000						
Rated PV Input Voltage [V]	600						
Start-up Voltage [V]	160						
No. of MPP Trackers	2						
No. of Input Strings per Tracker	1 / 1						
Max. PV Input Current [A]	16 / 16						
Max. Short-circuit Current [A]	20 / 20						
AC Output							
Rated AC Output Power [W]	4000	5000	6000	8000	10000	10000	12000
Max. AC Output Apparent Power [VA]	4400	5500	6600	8800	10000	11000	13200
Max. AC Output Current [A]	6.7	8.4	10	13.4	15.2	16.7	20
Rated AC Voltage [V]	3 / N / PE, 220 / 380, 230 / 400						
Grid Frequency [Hz]	50 / 60						
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%	98.0%	98.0%	98.0%	98.0%
Protection							
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						
String Current Monitoring	Integrated						
DC Surge Protection	Integrated (Type II)						
AC Surge Protection	Integrated (Type II)						
AFCI Protection	Optional						
PID Recovery Function	Optional						
DC Switch	Integrated						
General Data							
Dimensions (W * H * D) [mm]	428 * 385 * 185						
Weight [kg]	15						
Display	LED + OLED						
Communication	RS485, USB Update, Optional: WiFi, 4G, Ethernet						
Ambient Temperature Range [°C]	-25 ~ +60						
Relative Humidity	0 ~ 100%						
Operating Altitude [m]	≤ 2000						
Night Self-consumption [W]	< 1						
Topology	Transformerless						
Cooling	Natural						
Ingress Protection	IP65						
Noise [dB]	< 35						
Certifications & Standards							
Grid Regulation	NB/T 32004, ORDINANCE No.140, EN50549-1, EN50549-PL, IEC61727/IEC62116						
Safety Regulation	EN 62919-1, EN 62619-2						
EMC	EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4						