

On-Grid Inverters

# R3 Note Series

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



-  Compatible with 500W+ PV modules
-  Optional AFCI protection function
-  150% DC input oversizing
-  Remote firmware upgrade
-  Type II SPD for both DC and AC
-  Build-in zero export function



Model	R3-4K	R3-5K	R3-6K	R3-8K	R3-10K-A	R3-10K	R3-12K
<b>PV Input Data</b>							
Recommended Max. 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 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 [A]	16 / 16						
Max. Short-circuit Current [A]	20 / 20						
<b>AC Output Data</b>							
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, 220 / 380, 230 / 400; ±20%						
Grid Frequency / Range [Hz]	50 / 60 ; ±5						
Adjustable Power Factor [cosφ]	0.8 leading ~ 0.8 lagging						
Output THDi (@Rated Output)	< 3%						
<b>Efficiency</b>							
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%
<b>Protection</b>							
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						
<b>General Data</b>							
Dimensions (W * H * D) [mm]	428 * 385 * 185						
Weight [kg]	15						
Display	LED + OLED						
Communication	RS485, USB Upgrade, 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						
<b>Certifications &amp; Standards</b>							
Grid Regulation	NB / T 32004-2018, EN 50549, IEC 61727, IEC 62116, EN 50549-PL						
Safety Regulation	IEC 62109-1, IEC 62109-2						
EMC	EN 61000-1, EN 61000-2, EN 61000-3, EN 61000-4						