

On-Grid Inverters

R3 Note Series

4kW / 5kW / 6kW / 8kW / 10kW / 12kW / 15kW
Three Phase, 2 MPPTs



-  Natural cooling for mute operation
-  Wider MPPT voltage range (140 ~ 950V)
-  Remote firmware upgrade
-  IP65 outdoor design
-  150% DC input oversizing
-  Built-in zero export function



Model	R3-4K-DT	R3-5K-DT	R3-6K-DT	R3-8K-DT	R3-10K-DT	R3-12K-DT	R3-15K-DT
PV Input							
Max. Recommended PV Power [Wp]	6000	7500	9000	12000	15000	18000	22500
Max. PV Power for Single MPPT [Wp]	3000	3750	4500	6000	7500	9000	15000 / 7500
Max. PV Input Voltage [V]	1000						
MPPT Voltage Range [V]	140 ~ 950						
Rated PV Input Voltage [V]	630						
Start-up Voltage [V]	160						
No. of MPP Trackers	2						
No. of Input Strings per Tracker	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	2 / 1
Max. PV Input Current [A]	16 / 16	16 / 16	16 / 16	16 / 16	16 / 16	16 / 16	20 / 16
Max. Short-circuit Current [A]	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20	25 / 20
DC Switch	Integrated						
AC Output							
Rated AC Output Power [W]	4000	5000	6000	8000	10000	12000	15000
Max. AC Output Apparent Power [VA]	4400	5500	6600	8800	11000	13200	16500
Max. AC Output Current [A]	6.4	8.0	9.6	12.8	16	19.2	24
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	98.40%	98.40%	98.40%	98.50%	98.50%	98.50%	98.50%
Euro Efficiency	97.80%	97.80%	97.80%	98.00%	98.00%	98.00%	98.00%
General Data							
Dimensions (W * H * D) [mm]	455 * 390 * 160			455 * 390 * 175			455 * 390 * 190
Weight [kg]	16.3			18.3			21.6
Display	LCD						
Communication	RS485 or WiFi or 4G (Optional)						
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]	< 30						
Certifications & Standards							
Grid Regulation	C10 / 11, PEA, MEA, G98, G99, EN 50549, CEI 0-21, CEI 0-16, IEC 61727, IEC 62116, IEC 60068, IEC 61683						
Safety Regulation	IEC 62109-1, IEC 62109-2						
EMC	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12, 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		