

On-grid Inverter



R3 Max

100kW - 125kW / Three Phase, 9 MPPTs

16A

Max. PV input
current



Optional AFCI & Smart
PID recovery function



Export control
function integrated

- ▶ 150% PV input oversizing & 110% AC overloading
- ▶ Type II SPD for both DC and AC
- ▶ IP66 outdoor design
- ▶ String monitoring and shorter O&M time

Model	R3-100K	R3-110K	R3-125K
PV Input			
Max. Recommended PV Power [Wp]	150000	165000	187500
Max. PV Input Voltage [V]		1100	
Rated PV Input Voltage [V]		650	
Start-up Voltage [V]		200	
MPPT Voltage Range [V]		200 ~ 1000	
No. of MPP Trackers	9	9	9
No. of Input Strings per Tracker	2	2	2
Max. PV Input Current per MPPT [A]	32	32	32
Max. Short-circuit Current per MPPT [A]	48	48	48
AC Output			
Rated AC Output Power [W]	100000	110000	125000
Max. AC Output Apparent Power [VA]	110000	121000	125000
Max. AC Output Current [A]	159.4	175.4	181.2
Rated AC Voltage [V]		3 / N / PE, 220 / 380, 230 / 400	
Grid Frequency [Hz]		50 / 60	
Adjustable Power Factor [cos φ]		0.8 leading ~ 0.8 lagging	
Output THDi (@Rated Output)		< 3%	
Efficiency			
Max. Efficiency	98.7%	98.7%	98.7%
Euro Efficiency	98.3%	98.3%	98.3%
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]		965 * 700 * 355	
Weight [kg]	88	88	88
Display		LED	
Communication		RS485 (Standard), WiFi	
Ambient Temperature Range [°C]		-30 ~ +60	
Relative Humidity		0 ~ 100%	
Operating Altitude [m]		≤ 4000	
Night Self-consumption [W]		< 1	
Topology		Transformerless	
Cooling		Fan	
Ingress Protection		IP66	
Certifications & Standards			
Grid Regulation		IEC 61727, IEC 62116, ORDINANCE No.140	
Safety Regulation		IEC 62109-1/2	
EMC		IEC 61000-6/2, IEC 61000-6/4	