

On-grid Inverters

R3 Plus Series

75kW

Three Phase, 8 / 9 MPPTs



170% DC input versizing



IP66 outdoor design



String monitoring and shorter O&M time



Optional AFCI & Smart PID recovery function



Remote firmware upgrade



Type II SPD for both DC and AC

Model	R3-75KL	R3-75K
DC Input Data		
Max. Recommended PV Power [Wp]	127500	127500
Max. PV Input Voltage [V]	800	1100
MPPT Voltage Range [V]	200 ~ 800	200 ~ 1000
Rated Input Voltage [V]	370	650
Start-up Voltage [V]	200	200
No. of MPP Trackers	9	8
No. of Input Strings per Tracker	2	2
Max. PV Input Current per MPPT [A]	45	40 (40A@550V, 45A@600V)
Max. Short-circuit Current per MPPT [A]	60	60
AC Output Data		
Rated AC Power [W]	75000	75000
Max. Apparent Power [VA]	75000	75000
Rated AC Current [A]	196.9	113.7
Max. AC Current [A]	196.9	113.7
Rated AC Voltage / Range [V]	3 / PE, 220; ± 20%; 3 / N / PE, 220; ± 20%	3 / PE, 380; ± 20%; 3 / N / PE, 380; ± 20%
Grid Frequency / Range [Hz]	50 / 60; ±5	50 / 60; ±5
Adjustable Power Factor [cos φ]	0.8 leading ~ 0.8 lagging	0.8 leading ~ 0.8 lagging
Output THDi (@Rated Output)	< 3% (Rated Power)	< 3% (Rated Power)
Efficiency		
Max. Efficiency	630 * 815 * 260	98.7%
Euro Efficiency	630 * 815 * 260	98.3%
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	
String Current Monitoring	Integrated	
DC Surge Protection	Integrated (Type II)	
AC Surge Protection	Integrated (Type II)	
AFCI Protection	Optional	
PID function	Optional	
General Data		
Size (Width * Height * Depth) [mm]	965 * 700 * 355	
Weight [kg]	85	84
User Interface	LED + LCD	
Communication	RS485 (Standard), Wifi or GPRS (Optional)	
Ambient Temperature Range [C]	-30 ~ +60	
Relative Humidity	0 ~ 100%	
Operating Altitude [m]	≤ 4000	
Standby Self Consumption [W]	< 1	
Topology	Transformerless	
Cooling	Fan	
Protection Grades	IP66	
Noise [dB]	≤ 75	
Warranty [years]	5 / 7 / 10	