

C&I On-grid Inverter

R3 Plus Series

75kW



Features

Three Phase, 8 / 9 MPPTs

-  170% PV input oversizing
-  Optional AFCI & Smart PID recovery function
-  String monitoring and shorter O&M time
-  IP66 outdoor design
-  Remote firmware upgrade
-  Type II SPD for both DC and AC

Model	R3-LV-75K-B	R3-75K-B
PV Input		
Max. Recommended PV Power [Wp]	127500	127500
Max. PV Input Voltage [V]	800	1100
MPPT Voltage Range [V]	200 ~ 800	200 ~ 1000
Rated PV 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	45
Max. Short-circuit Current per MPPT [A]	60	60
AC Output		
Rated AC Output Power [W]	75000	75000
Max. AC Output Apparent Power [VA]	75000	75000
Max. AC Output Current [A]	196.9	113.7
Rated AC Voltage [V]	3 / N / PE, 127 / 220	3 / N / PE, 220 / 380, 230 / 400
Grid Frequency [Hz]	50 / 60	50 / 60
Adjustable Power Factor [cosφ]	0.8 leading ~ 0.8 lagging	0.8 leading ~ 0.8 lagging
Output THDi (@Rated Output)	< 3%	< 3%
Efficiency		
Max. Efficiency	98.7%	98.7%
Euro Efficiency	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	87
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	