

Residential On-grid Inverter







R3 Pre Series

15kW / 20kW / 25kW



Features

Three Phase, 2 MPPTs

-  Compatible with 600W+ PV modules
-  Optional AFCI & Smart PID recovery function
-  150% PV input oversizing & 110% AC overloading
-  Wider MPPT voltage range (180 ~ 1000V)
-  Remote firmware upgrade
-  Type II SPD for both DC and AC



Model	R3-15K	R3-20K	R3-25K
PV Input			
Max. Recommended PV Power [Wp]	22500	30000	37500
Max. PV Power for Single MPPT [Wp]	8000	12000	15000
Max. PV Input Voltage [V]		1100	
MPPT Voltage Range [V]		180 – 1000	
Rated PV Input Voltage [V]		600	
Start-up Voltage [V]		200	
No. of MPP Trackers		2	
No. of Input Strings per Tracker		2 / 2	
Max. PV Input Current [A]		40 / 40	
Max. Short-circuit Current [A]		50 / 50	
AC Output			
Rated AC Output Power [W]	15000	20000	25000
Max. AC Output Apparent Power [VA]	16500	22000	27500
Max. AC Output Current [A]	25	33.4	41.7
Rated AC Voltage [V]		3 / N / PE, 220 / 380, 230 / 400	
Grid Frequency [Hz]		50 / 60	
Adjustable Power Factor [cosφ]		0.8 leading ~ 0.8 lagging	
Output THDi (@Rated Output)		< 3%	
Efficiency			
Max. Efficiency	98.6%	98.6%	98.6%
Euro Efficiency	98.2%	98.2%	98.2%
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]		520 * 412 * 200	
Weight [kg]		22	
Display		LED + OLED	
Communication		RS485, USB Update, 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		Fan	
Ingress Protection		IP65	
Certifications & Standards			
Grid Regulation		NB/T 32004, ORDINANCE No.140, EN50549-1, EN50549-PL, IEC61727/IEC62116	
Safety Regulation		EN 62919-1, EN 62619-2	
EMC		EN IEC 61000-6-1, EN IEC 61000-6-3, EN 62920, EN IEC61000-3-11, EN IEC61000-3-12	