






On-Grid Inverters

R3 Pre Series

15kW / 17kW / 20kW / 25kW
Three Phase, 2 MPPTs



-  Compatible with 600W+ PV modules
-  Wider MPPT voltage range (180 ~ 1000V)
-  Maximum DC input voltage 1100V
-  Remote firmware upgrade
-  150% DC input oversizing
-  Built-in zero export function



Model	R3-15K	R3-17K	R3-20K	R3-25K
PV Input Data				
Max. Recommended PV Power [Wp]	22500	25500	30000	37500
Max. PV Power for Single MPPT [Wp]	8000	10000	12000	15000
Max. PV Input Voltage [V]	1100			
MPPT Voltage Range [V]	180 – 1000			
Rated Input Voltage [V]	600			
Start-up Voltage [V]	200			
No. of MPP Trackers	2			
No. of Input Strings per Tracker	2 / 2			
Max. Input Current [A]	40 / 40			
Max. Short-circuit Current [A]	50 / 50			
AC Output Data				
Rated AC Power [W]	15000	17000	20000	25000
Max. Apparent Power [VA]	16500	18700	22000	27500
Max. AC Current [A]	25	28.3	33.4	41.7
Rated AC Voltage / Range [V]	3 / N / PE, 220 / 380, 230 / 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	98.60%	98.60%	98.60%	98.60%
Euro Efficiency	98.20%	98.20%	98.20%	98.20%
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			
AFCI Protection	Optional			
PID Recovery Function	Optional			
DC Surge Protection	Integrated (Type II)			
AC Surge Protection	Integrated (Type II)			
General Data				
Dimensions (W * H * D) [mm]	520 * 412 * 200			
Weight [kg]	22			
Display	LED + OLED			
Communication	RS485, USB Upgrade, 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 32004-2018, ABNT NBR 16149, ABNT NBR 16150, ABNT NBR 62116, EN 50549-1, IEC 61727, IEC 62116, ORDINANCE No.140, EN 50549-PL, IEC 62891			
Safety Regulation	IEC 62109-1, IEC 62109-2			
EMC	EN 61000-1, EN 61000-2, EN 61000-3, EN 61000-4			