







On-grid Inverters R3 Pre Series

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



FEATURES

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

R3 Pre Series

Model	R3-15K-G5	R3-17K-G5	R3-20K-G5	R3-25K-G5
PV Input Data				
Recommended Max. 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 Per MPPT [A]	40 / 40			
Max. Short-circuit Current per MPPT [A]	50 / 50			
AC Output Data				
Rated AC Power [W]	15000	17000	20000	25000
Max. Output 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, 380, 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	98.6%	98.6%	98.6%	98.6%
Euro Efficiency	98.2%	98.2%	98.2%	98.2%
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			
Anti-PID function	Optional			
DC Surge Protection	Integrated (Type II)			
AC Surge Protection	Integrated (Type II)			
General Data				
Size (Width * Height * Depth) [mm]	520 * 412 * 200			
Weight [kg]	22			
User Interface	LED + OLED			
Communication	RS485 and USB (Standard), Wifi or 4G (Optional)			
Ambient Temperature Range [°C]	-25~ +60			
Relative Humidity	0 ~ 100%			
Operating Altitude [m]	≤ 2000			
Standby Self Consumption [W]	< 1			
Topology	Transformerless			
Cooling	Fan			
Enclosure	IP65			
Noise [dB]	< 45			
Warranty [years]	5 / 7 / 10			
Certifications & Standards				
Grid Regulation	NB/T 32004-2018, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4015, UNE 217001, UNE 206007, PO 12.2, UTE C15-712, ABNT NBR 16149, ABNT NBR 16150, ABNT NBR 62116, EN 50549, IEC 61727, IEC 62116			
Safety Regulation	IEC 62109-1, IEC 62109-2			
EMC	EN 61000-1, EN 61000-2, EN 61000-3, EN 61000-4			