

On-grid Inverters

R3 Navo Series

30kW / 36kW / 40kW / 50kW

Three Phase, 3 / 4 MPPTs



FEATURES



Compatible with 600W+ PV modules



150% DC input oversizing & 110% AC overloading



Remote firmware upgrade



Optional AFCI & Smart PID recovery function



Low start-up voltage at 160V



Type II SPD for both DC and AC

Model	R3-30K	R3-36K	R3-40K	R3-50K
PV Input Data				
Recommended Max. PV Power [Wp]	45000	54000	60000	75000
Max. PV power for single MPPT [Wp]	15000	15000	15000	20000
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	3	3	4	4
No. of Input Strings per Tracker	2 / 2 / 2	2 / 2 / 2	2 / 2 / 2 / 2	2 / 2 / 2 / 2
Max. Input Current Per MPPT [A]	40 / 40 / 40	40 / 40 / 40	40 / 40 / 40 / 40	40 / 40 / 40 / 40
Max. Short-circuit Current per MPPT [A]	50 / 50 / 50	50 / 50 / 50	50 / 50 / 50 / 50	50 / 50 / 50 / 50
AC Output Data				
Rated AC Power [W]	30000	36000	40000	50000
Max. Output Power [VA]	33000	39600	44000	55000
Max. AC Current [A]	50	60	66.6	83.3
Rated AC Voltage / Range [V]	3 / N / PE, 380, 400; ±20%; 3 / 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	99.00%	99.00%	99.00%	99.00%
Euro Efficiency	98.50%	98.50%	98.50%	98.50%
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]	585 * 480 * 220			
Weight [kg]	37			
User Interface	LED + OLED			
Communication	RS485 and USB or 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]	< 60			
Warranty [years]	5 / 7 / 10			
Certifications & Standards				
Grid Regulation	VDE-AR-N4105, EN 50549			
Safety Regulation	IEC 62109-1, IEC 62109-2			
EMC	IEC 61000-6-1, EN 61000-6-3			