

On-grid Inverter



R3 Navo

30kW - 50kW / Three Phase, 3 / 4 MPPTs

20A

Max. PV input
current



Optional AFCI & Smart
PID recovery function



Export control
function integrated

- ▶ 150% PV input oversizing & 110% AC overloading
- ▶ Low start-up voltage at 200V
- ▶ Type II SPD for both DC and AC
- ▶ String monitoring and shorter O&M time

Model	R3-30K	R3-40K	R3-50K
PV Input			
Max. Recommended PV Power [Wp]	45000	60000	75000
Max. PV Power for Single MPPT [Wp]	20000	20000	20000
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	3	4	4
No. of Input Strings per Tracker	2 / 2 / 2	2 / 2 / 2 / 2	2 / 2 / 2 / 2
Max. PV Input Current [A]	40 / 40 / 40	40 / 40 / 40 / 40	40 / 40 / 40 / 40
Max. Short-circuit Current [A]	50 / 50 / 50	50 / 50 / 50 / 50	50 / 50 / 50 / 50
AC Output			
Rated AC Output Power [W]	30000	40000	50000
Max. AC Output Apparent Power [VA]	33000	44000	55000
Max. AC Output Current [A]	50	66.6	83.3
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%	98.8%	98.8%
Euro Efficiency	97.8%	98.0%	98.0%
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]	585 * 480 * 220		
Weight [kg]	37		
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, EN50549-CZ, EN50549-GR, UNE217002/RD647, IEC61727/IEC62116, VDE0126, VDE4105		
Safety Regulation	EN 62919-1, EN 62619-2		
EMC	EN IEC 61000-6-1, EN IEC 61000-6-3, IEC 62920		