

C&I On-grid Inverter

R3 Navo Series

30kW / 36kW / 40kW / 50kW



Features

Three Phase, 3 / 4 MPPTs

-  Compatible with 600W+ PV modules
-  Optional AFCI & Smart PID recovery function
-  150% PV input oversizing & 110% AC overloading
-  Low start-up voltage at 200V
-  Remote firmware upgrade
-  Type II SPD for both DC and AC

Model	R3-30K	R3-36K	R3-40K	R3-50K
PV Input				
Max. Recommended PV Power [Wp]	45000	54000	60000	75000
Max. PV Power for Single MPPT [Wp]	20000	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	3	4	4
No. of Input Strings per Tracker	2 / 2 / 2	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 / 40 / 40 / 40
Max. Short-circuit Current [A]	50 / 50 / 50	50 / 50 / 50	50 / 50 / 50 / 50	50 / 50 / 50 / 50
AC Output				
Rated AC Output Power [W]	30000	36000	40000	50000
Max. AC Output Apparent Power [VA]	33000	39600	44000	55000
Max. AC Output Current [A]	50	60	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%	98.7%	98.8%	98.8%
Euro Efficiency	97.8%	98.0%	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 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, 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			