

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)



Optional AFCL & Smart PID recovery function



Remote firmware upgrade



150% DC input oversizing & 110% AC overloading



Type II SPD for both DC and AC



Model	R3-15K	R3-17K	R3-20K	R3-25K
<b>PV Input</b>				
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 PV 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			
<b>AC Output</b>				
Rated AC Output Power [W]	15000	17000	20000	25000
Max. AC Output Apparent Power [VA]	16500	18700	22000	27500
Max. AC Output 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%			
<b>Efficiency</b>				
Max. Efficiency	98.60%	98.60%	98.60%	98.60%
Euro Efficiency	98.20%	98.20%	98.20%	98.20%
<b>Protection</b>				
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			
<b>General Data</b>				
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			
<b>Certifications &amp; Standards</b>				
Grid Regulation	NB/T 32004, ORDINANCE No.140, EN50549-1, EN50549-PL, IEC61727/IEC62116			
Safety Regulation	EN 62919-1, EN 62619-2			
EMC	EN IEC 61000-6-1, EN IEC 61000-6-3, EN 62920, EN IEC61000-3-11, EN IEC61000-3-12			