

On-grid Inverters

R3 LV Series

10kW / 12kW / 15kW
Three Phase, 2 MPPTs



FEATURES



Compatible with 500W+ PV modules



150% DC input oversizing



Remote firmware upgrade



IP65 outdoor design



Support LVRT and OVRT



Built-in zero export function

Model	R3-10K-LV		R3-12K-LV	R3-15K-LV
PV Input Data				
Recommended Max. PV Power [Wp]	15000		18000	22500
Max. PV Power for Single MPPT [Wp]	7500		9000	11250
Max. PV Input Voltage [V]	800			
MPPT Voltage Range [V]	150 ~ 650			
Rated Input Voltage [V]	380			
Start-up Voltage [V]	165			
No. of MPP Trackers	2			
No. of Input Strings per Tracker	2 / 2	2 / 2	2 / 2	
Max. Input Current Per MPPT [A]	30 / 30	30 / 30	30 / 30	
Max. Short-circuit Current per MPPT [A]	39 / 39	39 / 39	39 / 39	
DC Switch	Integrated			
AC Output Data				
Rated AC Power [W]	9000@208 Vac 10000@220 Vac 11000@240 Vac	11000@208 Vac 12000@220 Vac 13000@240 Vac	14000@208 Vac 15000@220 Vac 16000@240 Vac	
Max. Output Power [VA]	11000	13000	16000	
Max. AC Current [A]	27.1	31.9	40	
Rated AC Voltage / Range [V]	150 ~ 300			
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	98.40%	98.40%	98.50%	
Euro Efficiency	98.10%	98.20%	98.20%	
General Data				
Size (Width * Height * Depth) [mm]	506 * 386 * 185			
Weight [kg]	23			
User Interface	LCD			
Communication	RS485 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]	< 45			
Warranty [years]	5 / 7 / 10			
Certifications & Standards				
Safety Regulation	IEC 62109-1, IEC 62109-2			
EMC	EN 61000-1, EN 61000-2, EN 61000-3, EN 61000-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29			
Protection				
	• DC Insulation Monitoring	• AC Overvoltage Protection	• Anti-island Protection	
	• Residual Current Monitoring	• AC Overcurrent Protection	• Over-heat Protection	
	• Input Reverse Polarity Protection	• AC Short-circuit Protection	• DC / AC Surge Protection	