

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