


On-Grid Inverters

R3 LV Series


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




 Compatible with 500W+ PV modules

 Support LVRT and OVRT

 Remote firmware upgrade

 IP65 outdoor design

 150% DC input oversizing

 Built-in zero export function



| Model | R3-10K-LV | R3-12K-LV | R3-15K-LV |
|---------------------------------------|--|---|--|
| PV Input | | | |
| Max. Recommended 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 PV 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. PV Input Current [A] | 30 / 30 | 30 / 30 | 30 / 30 |
| Max. Short-circuit Current [A] | 39 / 39 | 39 / 39 | 39 / 39 |
| DC Switch | Integrated | | |
| AC Output | | | |
| Rated AC Output 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. AC Output Apparent Power [VA] | 11000 | 13000 | 16000 |
| Max. AC Output 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 | | | |
| Dimensions (W * H * D) [mm] | 506 * 386 * 185 | | |
| Weight [kg] | 23 | | |
| Display | LCD | | |
| Communication | RS485 or WiFi or 4G (Optional) | | |
| 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 | | |
| Noise [dB] | < 45 | | |
| 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 | | | |
| | <ul style="list-style-type: none"> DC Insulation Monitoring Residual Current Monitoring Input Reverse Polarity Protection | <ul style="list-style-type: none"> AC Overvoltage Protection AC Overcurrent Protection AC Short-circuit Protection | <ul style="list-style-type: none"> Anti-island Protection Over-heat Protection DC / AC Surge Protection |