


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
<b>PV Input Data</b>			
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 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 [A]	30 / 30	30 / 30	30 / 30
Max. Short-circuit Current [A]	39 / 39	39 / 39	39 / 39
DC Switch		Integrated	
<b>AC Output Data</b>			
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. Apparent 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%	
<b>Efficiency</b>			
Max. Efficiency	98.40%	98.40%	98.50%
Euro Efficiency	98.10%	98.20%	98.20%
<b>General Data</b>			
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	
<b>Certifications &amp; Standards</b>			
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	
<b>Protection</b>			
	<ul style="list-style-type: none"> <li>DC Insulation Monitoring</li> <li>Residual Current Monitoring</li> <li>Input Reverse Polarity Protection</li> </ul>	<ul style="list-style-type: none"> <li>AC Overvoltage Protection</li> <li>AC Overcurrent Protection</li> <li>AC Short-circuit Protection</li> </ul>	<ul style="list-style-type: none"> <li>Anti-island Protection</li> <li>Over-heat Protection</li> <li>DC / AC Surge Protection</li> </ul>