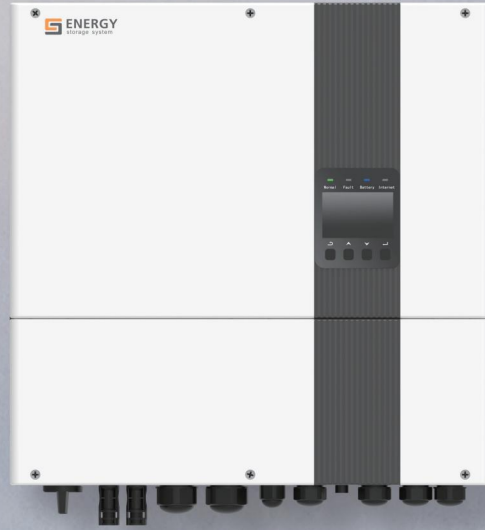


I1000-RL1 Series

3kW / 3.68kW / 5kW

Single Phase, 2 MPPTs Low Voltage Hybrid Inverter



Compatible with lithium & lead-acid battery (48V)



Emergency power supply



Remote work mode setting



IP65 outdoor design



EMS integrated



Support VPP / FFR function

TECHNICAL PARAMETERS

Model	I1000-RL1-3K-M1	I1000-RL1-3.68K-M1	I1000-RL1-5K-M1
PV Input Data			
Max. Recommended PV Power [Wp]	6600	6600	8000
Max. PV Input Voltage [V]		580	
MPPT Voltage Range [V]		100-550	
Start-up Voltage [V]		110	
No. of MPP Trackers		2	
No. of Input Strings per Tracker		1	
Max. Input Current per MPPT [A]		13.5 / 13.5	
Max. Short-circuit Current per MPPT [A]		17 / 17	
DC Switch		Integrated	
AC Input / Output Data			
Rated AC Power [W]	3000	3680	5000
Max. Output Power [VA]	3000	3680	5000
Max. AC Current [A]	13	16	21.7
Rated AC Voltage / Range [V]		220 / 230; 180-270	
Grid Frequency / Range [Hz]		50 / 60; ±5	
Adjustable Power Factor [cosφ]		0.8 leading-0.8 lagging	
Output THDi [@Rated Output]		<3%	
Battery Data			
Battery Type		Lithium/Lead-acid	
Recommended Battery Voltage [V]		48	
Battery Voltage Range [V]		40-60	
Max. Charging / Discharging Power [W]		3000	
Max. Charging / Discharging Current [A]		60	
Communication Interface		CAN	
EPS Output Data (With Battery)			
EPS Rated Power [W]		3000	
EPS Rated Voltage [V]		220 / 230	
EPS Rated Frequency [Hz]		50 / 60	
EPS Rated Current [A]		13	
Output THDi [@Rated Output]		<3%	
Automatic Switch Time [s]		<5	
Peak Apparent Power, Duration [VA, s]		4500, 10	
Efficiency			
Max. Efficiency	97.60%	97.60%	97.60%
Euro Efficiency	97.00%	97.00%	97.00%
Battery Charge / Discharge Efficiency	94.00%	94.00%	94.00%
General Data			
Size (Width * Height * Depth) [mm]		526*528*193	
Weight [kg]		29.5	
User Interface		LCD	
Communication		RS485 and USB (Standard), Wifi or 4G or Ethernet (Optional)	
Ambient Temperature Range[°C]		-25~+60	
Relative Humidity		0~100%	
Operating Altitude [m]		≤4000	
Standby Self Consumption [W]		<1	
Topology		Transformerless	
Cooling		Natural	
Enclosure		IP65	
Noise [dB]		<35	
Warranty [years]		5 / 7 / 10	
Certifications & Standards			
Grid Regulation	G98, G99, NRS-097, MEA, PEA, AS 4777, EN 50438, CEI-021, EN 50549, IEC 61727, IEC 62116, IEC 60068, IEC 61683, C10 / 11		
Safety Regulation	IEC 62109-1, IEC 62109-2, IEC 62040		
EMC	EN 61000-6-2, EN 61000-6-3, 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