ENERGY
storage system

I1000-RH3 Series

5.0kW / 6.0kW / 8.0kW / 10.0-A kW/ 10.0kW

Three Phase, 2 MPPTs High Voltage Hybrid Inverter

- Compatible with high power PV modules with 18A
- Support 100% unbalanced loads
- < 10ms UPS-level switching
- Support up to 10 units parallel connections
- Remote firmware upgrade & work mode setting
- Support VPP / FFR function

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TECHNICAL PARAMETERS

Model	I1000-RH3-5K-M1	I1000-RH3-6K-M1	I1000-RH3-8K-M1	I1000-RH3-10K-A-M1	I1000-RH3-10K-M1
PV Input Data					
Max. Recommended PV Power [Wp]	7500	9000	12000	15000	15000
Max. PV Input Voltage [V]	1000				
MPPT Voltage Range [V]	160 ~ 950				
Rated PV Input voltage [V]	600				
Start-up Voltage [V]	160				
No. of MPP Trackers	2				
No. of Input Strings per Tracker	1				
Max. PV Input Current [A]	18 / 18				
Max. Short Circuit Current [A]	23 / 23				
Backfeed Current to array [A]	0				
DC Switch	Integrated				
AC Output Data					
Maximum Apparent Power [VA]	5500	6600	8800	10000	11000
Rated AC Power [W]	5000	6000	8000	10000	10000
Max. AC Current [A]	7.6	9.1	12.2	14.4	15.2
Rated AC Current [A]	7.2	8.7	11.5	14.4	14.4
Rated AC Voltage / Range [V]	3 / N / PE, 220 / 380, 230 / 400				
Grid Frequency / Range [Hz]	50 / 60; ± 5				
Adjustable Power Factor [cosϕ]	0.8 leading ~ 0.8 lagging				
Output THDi [@Rated Output]	<3%				
AC Input Data					
Rated AC Power [W]	10000	12000	16000	20000	20000
Max. continuous AC Current [A]	15.2	18.2	24.3	28.8	30.4
Rated AC Voltage / Range [V]	3 / N / PE, 220 / 380, 230 / 400; ± 20%				
Grid Frequency / Range [Hz]	50 / 60; ± 5				
AC Inrush Current [A]	32				
Max. Output Overcurrent Protection	40				
AC Max. output fault current [A]	73				
Battery Data					
Battery Type	Lithium				
Battery Voltage Range [V]	160 ~ 700				
Max. Charging / Discharging Current [A]	30				
Communication Interface	CAN				
EPS Output Data (With Battery)					
EPS Rated Power [W]	5000	6000	8000	10000	10000
EPS Rated Voltage [V]	3 / N / PE, 220 / 380, 230 / 400				
EPS Rated Frequency [Hz]	50 / 60				
EPS Rated Current [A]	7.6	9.1	12.2	14.4	15.2
Output THDi [@Rated Output]	<3%				
Automatic Switch Time [ms]	<10				
Peak Apparent Power, Duration [VA, s]	7500, 60	9000, 60	12000, 60	15000, 60	15000, 60
Efficiency					
Max. Efficiency	98.00%	98.00%	98.00%	98.00%	98.00%
Euro Efficiency	97.70%	97.70%	97.70%	97.70%	97.70%
Max. Battery Charge / Discharge Efficiency	97.60%	97.60%	97.60%	97.60%	97.60%
Protection					
DC Insulation Monitoring	Integrated				
Input Reverse Polarity Protection	Integrated				
Anti-island Protection	Integrated				
Residual Current Monitoring	Integrated				
Over-heat Protection	Integrated				
AC Overcurrent Protection	Integrated				
AC Short-circuit Protection	Integrated				
AC Overvoltage Protection	Integrated				
DC Surge Protection	Type II				
AC Surge Protection	Type II				
General Data					
Size (Width * Height * Depth) [mm]	520 * 412 * 186				
Weight [kg]	27				
User Interface	LED + OLED				
Communication	RS485 and USB (Standard), Wifi or 4G or Ethernet (Optional)				
Operating Temperature Range [℃]	-25 ~ +60				
Relative Humidity	0 ~ 100%				
Operating Altitude [m]	≤ 2000				
Standby Self Consumption [W]	<15				
Topology	Transformerless				
Pollution degree	II				
Protective class	I				
OVC categories	DC II / AC III				
Environmental categories	Outdoor conditioned				
Cooling	Natural				
Enclosure	IP65				
Noise [dB]	<35				
Warranty [years]	5				
Certifications & Standards					
Grid Regulation	VDE-AR-N 4105, EN 50549-1, VDE 0126, CEI 0-21, EN 50549-PL, ÖVE/ÖNORM E 8001-4-712, EN50549-CZ				
Safety Regulation	IEC 62109-1, IEC 62109-2				
EMC	IEC 61000-6-1, IEC 61000-6-3				