



Leading - edge Technology

- ▶ 10KW three phase on-grid inverter with energy storage
- ▶ Self-consumption and Feed-in to the grid
- ▶ Programmable supply priority for PV, Battery or Grid
- ▶ User-adjustable charging current up to 200A
- ▶ Programmable multiple operations modes: Grid tie, Off grid, and grid-tie with backup
- ▶ Built-in Timer for various mode of on/off operation
- ▶ Multiple communication for USB, RS-232, Modbus and SNMP
- ▶ Monitoring software for real time status display and control

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| Datasheet | | Growatt 10000HY |
|--|--|---|
| PHASE | | 3-phase in / 3-phase out |
| RATED OUTPUT POWER | | 10000 W |
| MAXIMUM CHARGING POWER | | 9600 W |
| GRID-TIE OPERATION | | |
| PV INPUT (DC) | | |
| Maximum PV Input Power | | 14850W |
| Nominal DC Voltage / Maximum DC Voltage | | 720 VDC / 900 VDC |
| Start-up Voltage / Initial Feeding Voltage | | 320 VDC / 350 VDC |
| MPP Voltage Range | | 350 VDC ~ 850 VDC |
| Number of MPP Trackers / Maximum Input Current | | 2 / 2 x 18.6A |
| GRID OUTPUT (AC) | | |
| Nominal Output Voltage | | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Voltage Range | | 184 - 265 VAC per phase |
| Nominal Output Current | | 14.5 A per phase |
| Power Factor | | >0.99 |
| EFFICIENCY | | |
| Maximum Conversion Efficiency (DC/AC) | | 96% |
| European Efficiency @ Vnominal | | 95% |
| OFF-GRID OPERATION | | |
| AC INPUT | | |
| AC Start-up Voltage/Auto Restart Voltage | | 120 - 140 VAC per phase / 180 VAC per phase |
| Acceptable Input Voltage Range | | 170 - 280 VAC per phase |
| Maximum AC Input Current | | 25A |
| PV INPUT (DC) | | |
| Maximum DC Voltage | | 900 VDC |
| MPP Voltage Range | | 350 VDC ~ 850 VDC |
| Number of MPP Trackers / Maximum Input Current | | 2 / 2 x 18.6A |
| BATTERY MODE OUTPUT (AC) | | |
| Nominal Output Voltage | | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Waveform | | Pure Sinewave |
| Efficiency (DC to AC) | | 91% |
| HYBRID OPERATION | | |
| PV INPUT (DC) | | |
| Nominal DC Voltage / Maximum DC Voltage | | 720 VDC / 900 VDC |
| Start-up Voltage / Initial Feeding Voltage | | 320 VDC / 350 VDC |
| MPP Voltage Range | | 350 VDC ~ 850 VDC |
| Number of MPP Trackers / Maximum Input Current | | 2 / 2 x 18.6A |

Datasheet**Growatt 10000HY****GRID OUTPUT (AC)**

| | |
|------------------------|-------------------------------|
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Voltage Range | 184 - 265 VAC per phase |
| Nominal Output Current | 14.5 A per phase |

AC INPUT

| | |
|--|---|
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC per phase / 180 VAC per phase |
| Acceptable Input Voltage Range | 170 - 280 VAC per phase |
| Maximum AC Input Current | 25A |

BATTERY MODE OUTPUT (AC)

| | |
|------------------------|-------------------------------|
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Efficiency (DC to AC) | 91% |

BATTERY & CHARGER

| | |
|--------------------------|-------------------------------------|
| Nominal DC Voltage | 48 VDC |
| Maximum Charging Current | Default 60A, 5A - 200A (Adjustable) |

GENERAL**PHYSICAL**

| | |
|---------------------------|-------------------|
| Dimension, D X W X H (mm) | 622 x 500 x 167.5 |
| Net Weight (kgs) | 45 |

INTERFACE

| | |
|--------------------|---|
| Communication Port | RS-232/USB and CAN Interface |
| Intelligent Slot | Optional SNMP, Modbus, and AS-400 cards available |

ENVIRONMENT

| | |
|-----------------------|----------------------------|
| Humidity | 0 ~ 90% RH (No condensing) |
| Operating Temperature | -10 to 55° C |
| Altitude | 0 ~ 1000 m* |

*Power derating 1% every 100 m when altitude is over 1000m
Product specifications are subject to change without further notice.