



Leading - edge Technology

- ▶ 3KW On-Grid Inverter with Energy Storage
- ▶ Self-consumption and Feed-in to the grid
- ▶ Programmable supply priority for PV, Battery or Grid
- ▶ User-adjustable battery charging current suits different types of batteries
- ▶ 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

GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

A: No.28 Guanghui Road, Longteng Community, Shiyan, Baoan District, Shenzhen, P.R.China.

T: + 86 755 2747 1900 F: + 86 755 2749 1460 E: info@ginverter.com

Datasheet

Growatt 3000HY

PHASE	1-phase in / 1-phase out
RATED OUTPUT POWER	3000 W
MAXIMUM CHARGING POWER	1200 W

GRID-TIE OPERATION

PV INPUT (DC)

Maximum PV Input Power	4500W
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	250 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A

GRID OUTPUT (AC)

Nominal Output Voltage	208/220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC*
Nominal Output Current	13 A
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 / 180 VAC
Acceptable Input Voltage Range	170 - 280 VAC
Maximum AC Input Current	30 A

PV INPUT (DC)

Maximum DC Voltage	500 VDC
MPP Voltage Range	250 VDC ~ 450 VD
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A

BATTERY MODE OUTPUT (AC)

Nominal Output Voltage	202/208/220/230/240 VAC
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	93%

HYBRID OPERATION

PV INPUT (DC)

Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	250 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A

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GRID OUTPUT (AC)

Nominal Output Voltage	202/208/220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC*
Nominal Output Current	13 A

AC INPUT

AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 - 280 VAC
Maximum AC Input Current	30 A

BATTERY MODE OUTPUT (AC)

Nominal Output Voltage	202/208/220/230/240 VAC
Efficiency (DC to AC)	93%

BATTERY & CHARGER

Nominal DC Voltage	48 VDC
Maximum Charging Current	25A

GENERAL

PHYSICAL

Dimension, D X W X H (mm)	107 x 438 x 480
Net Weight (kgs)	15.5

INTERFACE

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

ENVIRONMENT

Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	0 to 40 ° C
Altitude	0 ~ 1000 m**

*These figures may vary depending on different AC voltage and country requirements.

**Power derating 1% every 100 m when altitude is over 1000m.

Product specifications are subject to change without further notice.

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AS 4777 , AS/NZS3100