



Leading - edge Technology

- ▶ 2KW/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

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Datasheet**Growatt 3000HY****Growatt 3000HYP**

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

GRID-TIE OPERATION**PV INPUT (DC)**

Maximum PV Input Power	3200W	4500W
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	116 VDC / 150 VDC
MPP Voltage Range	250 VDC – 450 VDC	250 VDC – 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 13 A	1 / 1 x 18 A

GRID OUTPUT (AC)

Nominal Output Voltage	208/220/230/240 VAC	208/220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC*	184 - 264.5 VAC*
Nominal Output Current	13 A	13 A
Power Factor	>0.99	>0.99

EFFICIENCY

Maximum Conversion Efficiency (DC/AC)	96%	96%
European Efficiency @ Vnominal	95%	95%

OFF-GRID OPERATION**AC INPUT**

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

PV INPUT (DC)

Maximum DC Voltage	500 VDC	500 VDC
MPP Voltage Range	170 - 280 VAC	170 - 280 VAC
Number of MPP Trackers / Maximum Input Current	30 A	30 A

BATTERY MODE OUTPUT (AC)

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

HYBRID OPERATION**PV INPUT (DC)**

Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	116 VDC / 150 VDC
MPP Voltage Range	250 VDC – 450 VDC	250 VDC – 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 13 A	1 / 1 x 18 A

Datasheet**Growatt 3000HY****Growatt 3000HYP****GRID OUTPUT (AC)**

Nominal Output Voltage

202/208/220/230/240 VAC

202/208/220/230/240 VAC

Output Voltage Range

184 - 264.5 VAC*

184 - 264.5 VAC*

Nominal Output Current

13 A

13 A

AC INPUT

AC Start-up Voltage / Auto Restart Voltage

120 - 140 VAC / 180 VAC

120 - 140 VAC / 180 VAC

Acceptable Input Voltage Range

170 - 280 VAC

170 - 280 VAC

Maximum AC Input Current

30 A

30 A

BATTERY MODE OUTPUT (AC)

Nominal Output Voltage

202/208/220/230/240 VAC

202/208/220/230/240 VAC

Efficiency (DC to AC)

93%

93%

BATTERY & CHARGER

Nominal DC Voltage

48 VDC

48 VDC

Maximum Charging Current

25A

25A

GENERAL**PHYSICAL**

Dimension, D X W X H (mm)

107 x 438 x 480

107 x 438 x 480

Net Weight (kgs)

15.5

15.5

INTERFACE

Communication Port

RS-232/USB

RS-232/USB

Intelligent Slot

Optional SNMP, Modbus, and AS-400 cards available

ENVIRONMENT

Humidity

0 - 90% RH (No condensing)

0 - 90% RH (No condensing)

Operating Temperature

0 to 40° C

0 to 40° C

Altitude

0 - 1000 m**

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.

 VDE-AR-N 4105
VDE 0126-1-1
AS 4777, AS/NZS3100 (Only for Growatt 3000HYP)