



## 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

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Datasheet		Growatt 3000HY	
PHASE		1-phase in / 1-phase out	
RATED OUTPUT POWER		3000 W	
MAXIMUM CHARGING POWER		1200 W	
GRID-TIE OPERATION			
<b>PV INPUT (DC)</b>			
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	
<b>GRID OUTPUT (AC)</b>			
Nominal Output Voltage		208/220/230/240 VAC	
Output Voltage Range		184 - 264.5 VAC*	
Nominal Output Current		13 A	
Power Factor		>0.99	
<b>EFFICIENCY</b>			
Maximum Conversion Efficiency (DC/AC)		96%	
European Efficiency @ Vnominal		95%	
OFF-GRID OPERATION			
<b>AC INPUT</b>			
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	
<b>PV INPUT (DC)</b>			
Maximum DC Voltage		500 VDC	
MPP Voltage Range		250 VDC ~ 450 VDC	
Number of MPP Trackers / Maximum Input Current		1 / 1 x 18 A	
<b>BATTERY MODE OUTPUT (AC)</b>			
Nominal Output Voltage		202/208/220/230/240 VAC	
Output Waveform		Pure Sinewave	
Efficiency (DC to AC)		93%	
HYBRID OPERATION			
<b>PV INPUT (DC)</b>			
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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<b>BATTERY MODE OUTPUT (AC)</b>			
Nominal Output Voltage		202/208/220/230/240 VAC	
Efficiency (DC to AC)		93%	
<b>BATTERY &amp; CHARGER</b>			
Nominal DC Voltage		48 VDC	
Maximum Charging Current		25A	
GENERAL			
<b>PHYSICAL</b>			
Dimension, D X W X H (mm)		107 x 438 x 480	
Net Weight (kgs)		15.5	
<b>INTERFACE</b>			
Communication Port		RS-232/USB	
Intelligent Slot		Optional SNMP, Modbus, and AS-400 cards available	
<b>ENVIRONMENT</b>			
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.