



Leading - edge Technology

- ▶ 5KW 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 5000HY	
PHASE		1-phase in / 1-phase out	
RATED OUTPUT POWER		5000 W	
MAXIMUM CHARGING POWER		3000 W	
GRID-TIE OPERATION			
PV INPUT (DC)			
Maximum PV Input Power		7500W	
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		2 / 2 x 15 A	
GRID OUTPUT (AC)			
Nominal Output Voltage		208/220/230/240 VAC	
Output Voltage Range		184 - 264.5 VAC*	
Nominal Output Current		21 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		40 A	
PV INPUT (DC)			
Maximum DC Voltage		500 VDC	
MPP Voltage Range		250 VDC ~ 450 VDC	
Number of MPP Trackers / Maximum Input Current		2 / 2 x 15 A	
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage		202/208/220/230/240 VAC	
Output Waveform		Pure Sinewave	
Efficiency (DC to AC)		91%	
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		2 / 2 x 15 A	
GRID OUTPUT (AC)			
Nominal Output Voltage		202/208/220/230/240 VAC	
Output Voltage Range		184 - 264.5 VAC*	
Nominal Output Current		21A	
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		40 A	
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage		202/208/220/230/240 VAC	
Efficiency (DC to AC)		91%	
BATTERY & CHARGER			
Nominal DC Voltage		48 VDC	
Maximum Charging Current		60A	
GENERAL			
PHYSICAL			
Dimension, D X W X H (mm)		135 x 440 x 505	
Net Weight (kgs)		18.5	
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		-10 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.