DATA SHEET

FLEXINVERTER

Battery Energy Storage Inverter

GE's **FLEX**INVERTER Battery Energy Storage Inverter builds on proven power electronics technology, demonstrated global manufacturing experience and an extensive global installed base from the solar market.

The **FLEX**INVERTER Battery Energy Storage Inverter is designed to integrate seamlessly into most energy storage systems for viable, profitable and dispatchable power.

FLEXINVERTER Battery Energy Storage Inverter Features:

- 3.0-3.9 MVA, high density design
- Multiple DC & AC voltage ratings for optimum value
- Advanced grid features and reactive power control day and night for grid stabilization
- IEC and UL compliance
- Standard tricon container for optimized logistics
- Digital ready

SPECIFICATIONS	UNITS	1560 BESS Inverter	1563 BESS Inverter	1566 BESS Inverter	1569 BESS Inverter
INPUT DATA					
DC Voltage Range[1]	Vdc	851 - 1300	893 - 1350	936 - 1350	978 - 1350
Max DC Current (at 40°C / 50°C)	Adc	4200 / 3700			
Max DC Withstand Capability	Adc	250 kA for 30 ms			
DC Inputs		Direct busbar connection or up to 48 conductors per pole, bottom or side entry available			
OUTPUT DATA – Low Voltage					
AC Output Power (up to 40°C / at 50°C)[3]	MVA	3.39 / 3.00	3.56 / 3.15	3.73 / 3.30	3.90 / 3.45
AC Output Voltage (+10% / -10%)[4]	Vac	600	630	660	690
Max AC Current (up to 40°C / at 50°C)	Aac	3263 / 2886			
Rated Output Power (at 52°C & 0.92 PF)	MVA	2.76	2.90	3.04	3.17
AC Connection		Direct busbar connection or busbar to cable option			
Grid Frequency ±5%	Hz	50 / 60			
Power Factor (PF) Range		0 - 1 leading & lagging[4]			
Current Harmonic Distortion (TDD)	%	<3			
EFFICIENCY & AUXILIARY POWER					
Inverter Efficiency Discharging (Max / EU / CEC)[5]	%	98.9 / 98.6 / 98.7			
Nighttime Aux Power[6]	W	≤200			
INTERFACES					
Plant Control Interface / PLC		Modbus TCP, EGD			
Diagnostic Interface		Modbus TCP			
Extra Analog and Digital I/O		Option			
FEATURES					
Cooling		Air Cooled			
Local Shut Down		Included			
Mounting Options		Piers / Pad / Gravel			
DC Configurations Supported		Floating			
Customer Aux Power Loads[7]		Option (up to 45 kVA)			
Insulation Monitoring		Option			
Power Disconnect AC Side		Motorized AC Circuit Breaker			
Switch-Disconnect DC Side		Motorized DC Switch			
Overvoltage Protection, DC and AC		Included – IEC 61643-1 Class II / UL 1449			
Weather Station		Option			
Noise (at 1m / 10m)[8]	dBA	≤85 / ≤75			
Weight	kg / lbs	approx. 4050 / 8930			
Dimensions (L x W x H)	m / ft	2.0 x 2.4 x 2.9 / 6.5 x 8 x 9.5			
Colorcode		RAL 9003 (Signal White)			

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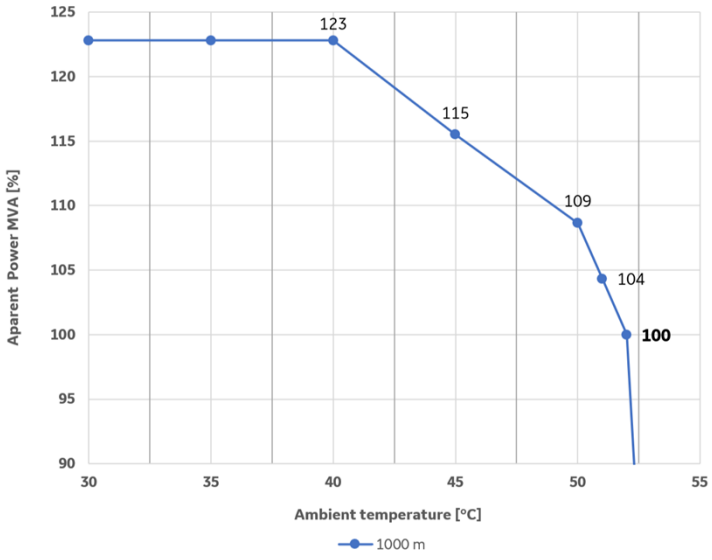
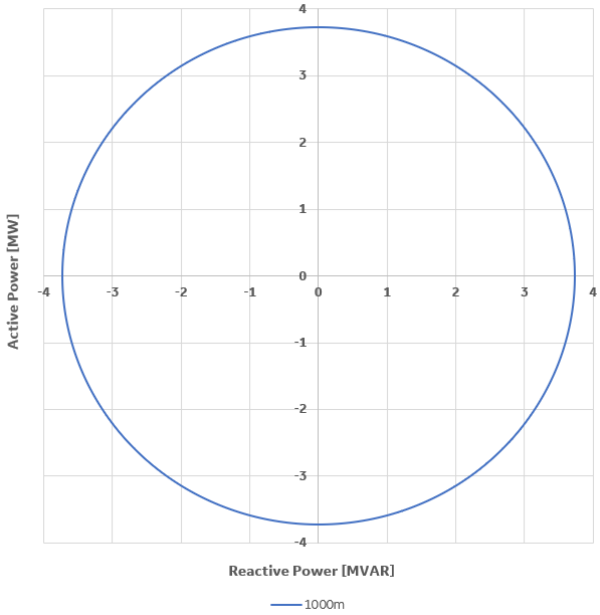
PROTECTION RATING AND AMBIENT CONDITIONS					
Operating Temperature Range	°C / °F	Standard -10 to +55 / +14 to +131, Option -25 to +55 / -13 to +131			
Storage Temperature Range	°C / °F	-40 to +65 / -40 to +149			
Cold Weather Option[9]	°C / °F	Down to -35 / -31			
Humidity	%	5 to 100 (rated for outdoor installation)			
Maximum Altitude Without Derating[10]	m / ft	1000 / 3281			
Seismic		Zone 2B ASCE 7 / IBC			
Maximum Wind Speed[11]	kph / mph	250 / 155			
Snow Load		ASCE 7			
NEMA Rating / IP Class		NEMA 3 / IP54			
STANDARDS					
Electromagnetic Compatibility (EMC)		EN 61000-6-2, 62920 / CISPR 11			
Certifications		IEC, CE, CSA, UL 1741 SA			

1. *At nominal grid voltage and PF=1, derating above 1300 Vdc according to PQ curves*
2. *Up to 40 °C, includes and is applicable for the application at 35 °C ambient*
3. *AC Power is valid for grid voltage ≥ nominal voltage. Self-consumption (max ~15 kVA) and customer auxiliary loads not included*
4. *Derating will apply according to PQ curves*
5. *Preliminary, excludes auxiliary power losses*
6. *No heating, no cooling, without environmental controls enabled & DC link de-energized*
7. *Customer Aux Power demand reduces total AC output power*
8. *At 10m in front of enclosure and 1m up from the ground*
9. *Cold weather option on request*
10. *Higher altitudes (with derating) on request*
11. *Maximum wind speed without derating 81 kph / 50 mph*

Power/ Temperature Derating Curve[12] & Sample PQ Diagram[13]



12. *Applicable for grid voltage ≥ nominal voltage, altitudes >1000m on request*



13. *PQ diagram for LV5+ 1566 at nominal grid voltage, 1300 Vdc and 40 °C ambient*

www.ge.com/renewableenergy/hybrid

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English
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