

DATA SHEET

FLEXINVERTER 1.5kV BESS Energy Storage Standalone Inverter

The GE Vernova **FLEXINVERTER** Battery Energy Storage Inverter builds on proven power electronics technology, global manufacturing experience and an extensive global installed base with over 28 GW of **FLEXINVERTER** produced and/or in operation around the world.

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

FLEXINVERTER features:

- Up to 4.4 MVA output power
- High efficiency
- Air-cooled system
- Advanced grid features
- IEC and UL compliance
- Standard tricon container for optimized logistics
- Digital ready

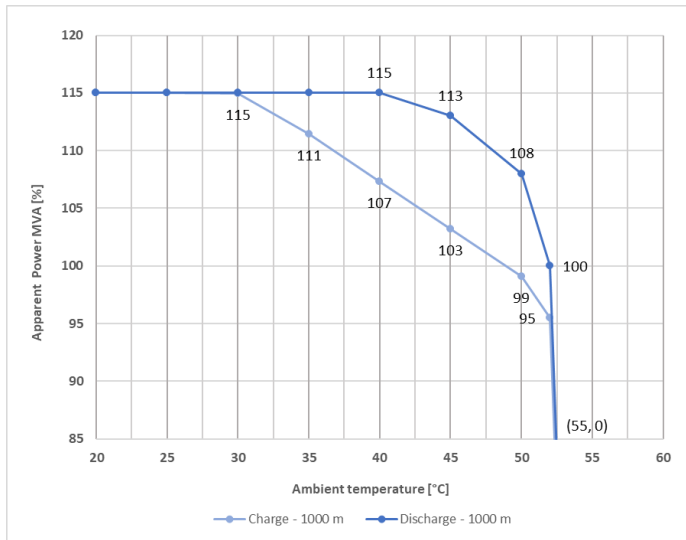


SPECIFICATIONS	UNITS	1571
INPUT DATA		
DC Input Range at Full Power Operation ¹	Vdc	1071 - 1450
Max DC Operating Voltage ¹	Vdc	1500
Max DC Current (up to 25°C / at 50°C)	Adc	4000 / 3600
Max DC Short Circuit Withstand	kAdc	Up to 290kA peak
Number of DC Inputs & cables		Standard 12, up to 24 inputs; up to 800 kcmil (400 mm ²) per DC input
Max DC Fuse Rating per DC Input	Adc	Up to 750, multiple fuse ratings available
OUTPUT DATA - LOW VOLTAGE		
Rated Output Power (at 52°C & 0.92 PF) ²	MVA	3.85
AC Output Voltage (+10% / -10%) ²	Vac	715
AC Discharge Power (up to 35°C / at 50°C) ³	MW MVA	4.21 / 3.77 4.45 / 4.16
Max Discharge AC Current (up to 40°C / at 50°C)	Aac	3593 / 3363
AC Charge Power (up to 25°C / at 50°C) ³	MW MVA	3.93 / 3.24 4.29 / 3.57
Max Charge AC Current (up to 25°C / at 50°C)	Aac	3424 / 2883
AC Connection		Direct busbar connection or cable marshaling box as an option
Grid Frequency ±5%	Hz	50 / 60
Power Factor (PF) Range ²		0 - 1 leading & lagging
Current Harmonic Distortion (TDD)	%	<3
EFFICIENCY AND AUXILIARY POWER		
Inverter Efficiency (Average for one way) ⁴	%	98.0
Idle-time Aux Power ⁵	W	≤200
INTERFACES		
Plant Control Interface / PLC		Modbus TCP, EGD
Diagnostic Interface		Modbus TCP
Extra Analog and Digital I/O		Option
FEATURES AND OPTIONS		
Cooling		Air Cooled
Local Shut Down Button		Included
Mounting Options		Piers / Pad / Piles
DC Configuration Supported		Floating
Idle-time VAR Capability		Option
Insulation Monitoring		Option
Container Color Code		RAL 6036 (Dark Teal)
Disconnect Low Voltage AC Side		Motorized AC Circuit Breaker
Disconnect DC Side		Motorized No-Load DC Switch

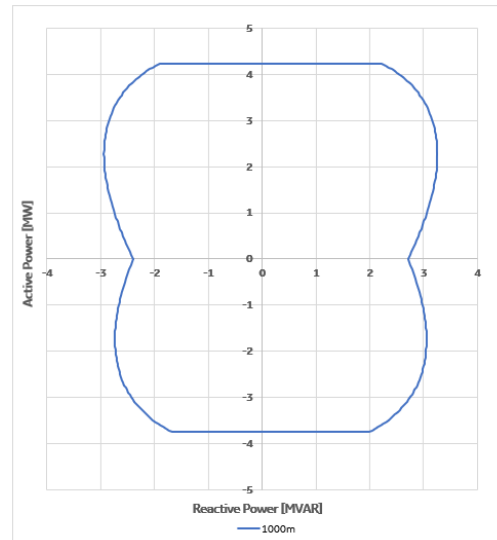
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FEATURES AND OPTIONS		
Overvoltage Protection – DC and AC		Included – IEC 61643-1 Class II / UL 1449
Customer Aux Power Loads ⁶	kVA	Standard 6, Option up to 165 with 1 circuit
Revenue Grade Metering		Option
GPS Enabled Fault Timestamping		Option (compliant to MISO App G and CAISO App H)
Altitude ²	m / ft	No derating ≤ 1000 / 3281, up to 4000 / 13124
Noise at 1m ⁷		≤79
Weight		Approximately 5100 / 11244
Dimensions (L x W x H)		2.0 x 2.4 x 2.9 / 6.5 x 8 x 9.5
PROTECTION RATING AND AMBIENT CONDITIONS		
Operating Temperature Range	°C / °F	Standard -10 to +55 / +14 to +131, Option -25 to +55 / -13 to +131
Cold Weather Option ⁸	°C / °F	Down to -35 / -31
Storage Temperature Range	°C / °F	-40 to +65 / -40 to +149
Humidity	%	5 to 100 (rated for outdoor installation)
Maximum Altitude Without Derating ⁹	m / ft	1000 / 3281
Seismic		IBC 2018 / ASCE 7-10 Ss=2g for 0.2 Sec
Maximum Wind Speed ¹⁰	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
Compatibility		IEEE 2800

- At nominal grid voltage, derating according to PQ curves
- Derating will apply according to PQ curves
- AC Power is valid for grid voltage ≥ nominal voltage. Self-consumption (max ~15 kVA) and customer auxiliary loads not included
- Preliminary efficiencies round trip performance, includes self-consumption auxiliary power losses
- No heating, no cooling, without environmental controls enabled & DC link de-energized
- Customer Aux Power demand reduces total AC output power
- At 1m in front of enclosure and 1.5m up from the ground. Please respect the restricted areas described in the manual
- Cold weather option on request
- Higher altitudes (with derating) on request
- Maximum wind speed without derating 81 kph / 50 mph

Power/ Temperature Derating Curve ¹¹ & Sample PQ Diagram ¹²



11. Applicable for grid voltage ≥ nominal voltage, altitudes >1000m on request, derating according to PQ Curves



12. Sample PQ diagram for FLEXINVERTER

<https://www.governova.com/solar-storage>

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