

## DATA SHEET

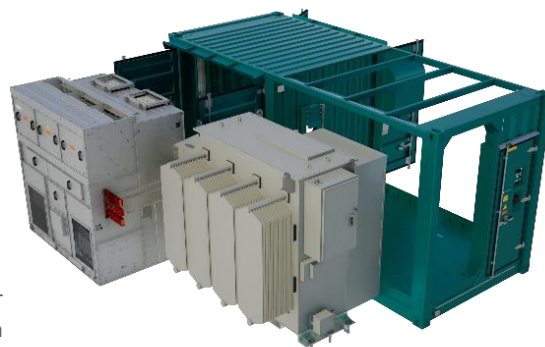
# FLEXINVERTER 1.5kV BESS Power Station

GE Vernova has accumulated more than 30 gigawatts for its renewable energy inverter technology and was one of the first to introduce 1500 Vdc to the market.

The **FLEXINVERTER** is one of the industry's leading 1500 Vdc developments and is GE Vernova's latest evolution in renewable power electronics. Building on expertise in the renewables industry, GE Vernova now offers its latest power conversion technology for efficient, cost effective and dispatchable power.

### FLEXINVERTER BESS Power Station:

- UL or IEC compliant configurations
- Up to 4.4 MVA output power
- High efficiency
- Air-cooled system
- Plug & play
- Advanced grid features
- Direct outdoor installation
- Standard 20ft ISO high cube container for optimized logistics and installation
- Digital ready

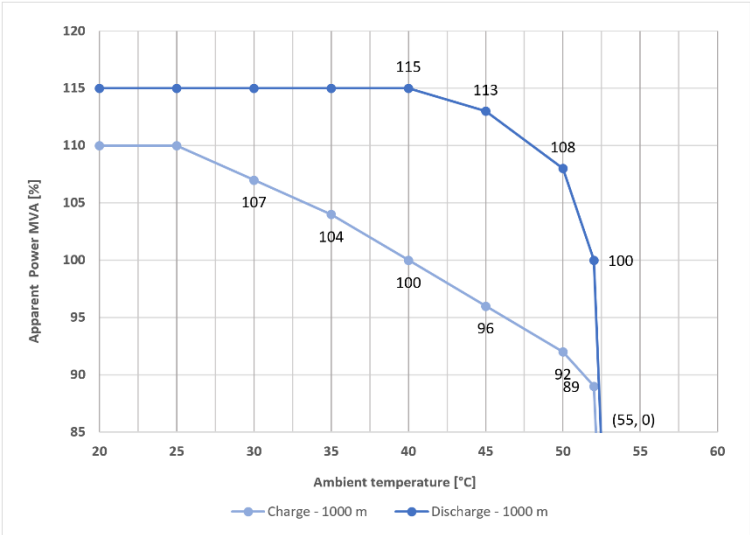


SPECIFICATIONS	UNITS	1571
<b>INPUT DATA</b>		
DC Input Range at Full Power Operation <sup>1</sup>	Vdc	1073 - 1450
Max DC Operating Voltage <sup>1</sup>	Vdc	1500
Max DC Current (up to 25°C / at 50°C)	Adc	4200 / 3935
Max DC Short-Circuit Withstand	kAdc	up to 290kA peak
Number of DC Inputs & cables		Standard 12, up to 24 input pairs, up to 400 mm <sup>2</sup> / 750 kcmil per DC input
Max DC Fuse Rating per DC Input	Adc	up to 750, multiple fuse ratings available
<b>OUTPUT DATA - MEDIUM VOLTAGE</b>		
Transformer HV/LV Connection		Δ (Delta) / Y (Wye)
Medium Voltage Short Circuit Rating	kA	IEC MVSG - Standard 20kA 1s, (Option 20kA 3s, 25kA 1s) / UL Padmount Transformer - Standard 25kA, (Option 40kA)
Rated Output Power (at 52°C & 0.92 PF) <sup>2</sup>	MVA	3.82
AC Output Voltage (+10% / -10%) <sup>2</sup>	kVac	22 / 33 / 34.5
AC Discharge Power (up to 40°C / at 50°C) <sup>3</sup>	MW   MVA	4.02 / 3.74   4.40 / 4.13
Max Discharge AC Current (up to 40°C)	Aac	117 / 78 / 74
Max Discharge AC Current (at 50°C)	Aac	109 / 73 / 70
AC Charge Power (up to 25°C / at 50°C) <sup>3</sup>	MW   MVA	3.88 / 3.26   4.19 / 3.54
Max Charge AC Current (up to 25°C)	Aac	111 / 74 / 71
Max Charge AC Current (at 50°C)	Aac	94 / 62 / 60
Grid Frequency ±5%	Hz	50 / 60
Power Factor (PF) Range <sup>2</sup>		0 - 1 leading & lagging
Current Harmonic Distortion (TDD)	%	<3
Medium Voltage Cable		Up to 1x 630 mm <sup>2</sup> (IEC) 630 Aac / 1x 1500 kcmil (UL) 600 Aac, 900Aac optional, separable connectors possible
<b>EFFICIENCY AND AUXILIARY POWER</b>		
System Efficiency (Average for one way) <sup>4</sup>	%	97.4
Inverter Efficiency (Average for one way) <sup>5</sup>	%	98.0
Idle-time Aux Power <sup>6</sup>	W	≤700
<b>INTERFACES</b>		
Plant Control Interface / PLC		Modbus TCP, EGD
Diagnostic Interface		Modbus TCP
Extra Analog and Digital I/O		Option
Power Station Connections		Internal: CAT7 <30m / External: Fiber Optic
<b>FEATURES AND OPTIONS</b>		
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 6026 (Dark Teal)

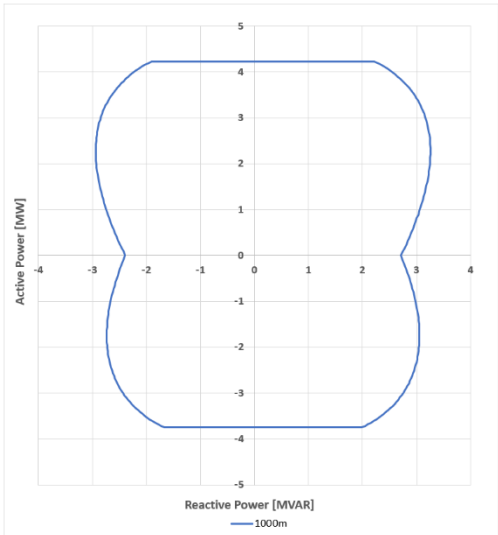
SPECIFICATIONS		UNITS	1571
FEATURES AND OPTIONS			
Disconnect Low Voltage AC Side			Motorized AC Circuit Breaker
Disconnect DC Side			Motorized No-Load DC Switch
Overvoltage Protection – DC and AC			Included – IEC 61643-1 Class II / UL 1449
Main Power Transformer Oil Type			Mineral - ONAN (Standard) / Biodegradable - KNAN (Option)
Oil Spill Management			Option 1: Collection & drainage   Option 2: Full oil containment up to 120% oil-volume
Customer Aux Power Loads <sup>7</sup>	kVA		Standard 6, Option up to 150 with up to 10 circuits
Revenue Grade Metering			Option
GPS Enabled Fault Timestamping			Option (compliant to MISO App G and CAISO App H)
Altitude <sup>2</sup>	m / ft		No derating ≤ 1000 / 3281, up to 4000 / 13124
Noise at 1m <sup>8</sup>	dBA		Standard ≤79, Acoustic Hood Option ≤71
Weight	kg / lbs		approximately 21000 / 46297
Dimensions (L x W x H)	m / ft		6.1 x 2.4 x 2.9 / 20.0 x 8.0 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 <sup>9</sup>	°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 <sup>10</sup>	m / ft		1000 / 3281
Seismic			IBC 2018 / ASCE 7-10 Ss=2g for 0.2 Sec
Maximum Wind Speed <sup>11</sup>	kph / mph		254 / 158
Snow Load			ASCE 7
NEMA Rating / IP Class			NEMA 3 / IP54 (Inverter & RMU), NEMA 1 / IP11 (IEC); NEMA 0 / IP00 UL (Transformer Area)
STANDARDS			
Electromagnetic Compatibility (EMC)			EN 61000-6-2, 62920 / CISPR 11
Certifications & Compatibility			IEC, CE & UL 1741 SA, CSA

1. At nominal grid voltage, derating according to PQ curves
2. Derating will apply according to PQ curves
3. AC Power is valid for grid voltage ≥ nominal voltage. Self-consumption (max ~16 kVA) and customer auxiliary loads not included
4. Preliminary efficiencies for round trip performance, includes auxiliary power losses, EU Reg. No. 584/2014 available as option
5. Preliminary efficiencies round trip performance, includes self-consumption 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 1m in front of enclosure and 1.5m up from the ground. Please respect the restricted areas described in the manual
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 <sup>12</sup> & Sample PQ Diagram <sup>13</sup>



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



13. Sample PQ diagram for FLEXINVERTER

[www.governova.com/power-conversion/solar-storage](http://www.governova.com/power-conversion/solar-storage)

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