

PRELIMINARY DATA SHEET

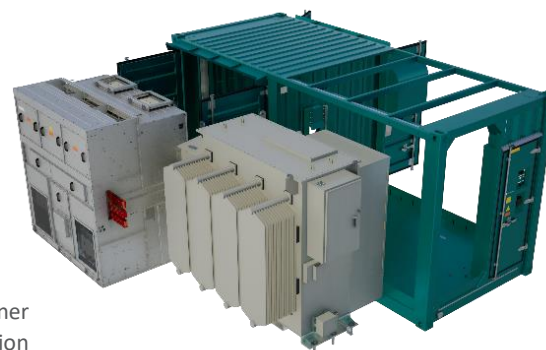
FLEXINVERTER SiC STATCOM PCS

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 STATCOM PCS:

- UL or IEC compliant configurations
- Up to 6.76 MVAR 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



UL Power Station

SPECIFICATIONS	UNITS	1569
OUTPUT DATA - MEDIUM VOLTAGE		
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 55°C & 0.92 PF) ²	MVAR	6.04
AC Output Voltage (+10% / -10%) ²	kVac	22 / 33 / 34.5
AC Power (up to 35°C / at 50°C) ³	MVAR	6.76 / 6.22
Max AC Current (up to 35°C)	Aac	178 / 118 / 113
Max AC Current (at 50°C)	Aac	163 / 109 / 104
Grid Frequency ±5%	Hz	50 / 60
Power Factor (PF) Range ²		0 - 1 leading & lagging
Current Harmonic Distortion (TDD)	%	<3
Medium Voltage Cable		Up to 1x 630 mm ² (IEC) 630 Aac / 1x 1500 kcmil (UL) 600 Aac, 900Aac optional, separable connectors possible
EFFICIENCY AND AUXILIARY POWER		
System Efficiency (Average for one way) ⁴	%	97.9
Inverter Efficiency (Average for one way) ⁵	%	98.5
Idle-time Aux Power ⁶	W	≤700
INTERFACES		
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
FEATURES AND OPTIONS		
Cooling		Air Cooled
Local Shut Down Button		Included
Mounting Options		Piers / Pad / Piles
Container Color Code		RAL 6026 (Dark Teal)
Disconnect Low Voltage AC Side		Motorized AC Circuit Breaker
AC Overvoltage Protection		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
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 ⁸	dBA	Standard ≤79, Acoustic Hood Option ≤71
Weight	kg / lbs	preliminary 19000 / 41889
Dimensions (L x W x H)	m / ft	6.1 x 2.4 x 2.9 / 20.0 x 8.0 x 9.5

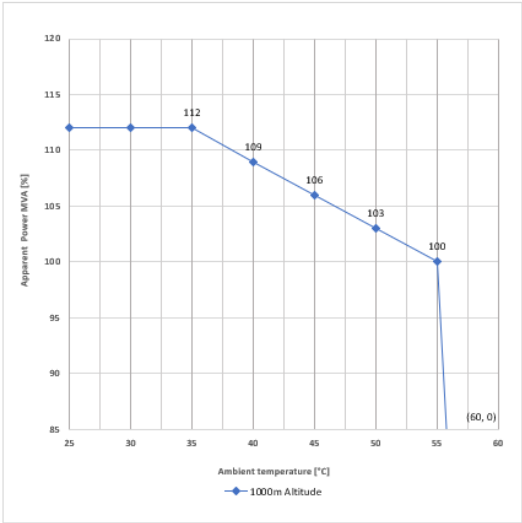
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PROTECTION RATING AND AMBIENT CONDITIONS		
Operating Temperature Range	°C / °F	Standard -10 to +55 / +14 to +131, Option -25 to +55 / -13 to +131
Cold Weather Option ⁹	°C / °F	Down to -35 / -31
Storage Temperature Range	°C / °F	-40 to +65 / -40 to +149
Humidity	%	5 to 100 (rated for outdoor installation)
Maximum Altitude Without Derating ¹⁰	m / ft	1000 / 3281
Seismic		IBC 2018 / ASCE 7-10 Ss=2g for 0.2 Sec
Maximum Wind Speed ¹¹	kph / mph	257 / 160
Snow Load		ASCE 7
NEMA Rating / IP Class		NEMA 3 / IP54 (Inverter & RMU), IP11 (IEC) 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 ¹²



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



IEC Power Station

www.governova.com/power-conversion/solar-storage

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