



LV5+ Solar Inverter Data Sheet



GE has accumulated more than 5 gigawatts of total global installed base for its solar inverter technology, and was the first to introduce 1,500-volt to the solar market.

GE's LV5+ Solar Inverter builds on proven power electronics technology, demonstrated global manufacturing experience and an extensive global installed base.

The LV5+ Solar Inverter is designed to integrate into GE's plug & play LV5+ Solar Power Station for efficient, cost effective and dispatchable solar power.

LV5+ Solar Inverter Features:

- 2.5-3.25 MW, high density design
- Multiple DC & AC voltage ratings for optimum value
- 1500 Vdc voltage level
- Advanced grid features and reactive power control day and night for grid stabilization
- IEC and UL compliance
- Standard tricon container for optimized logistics

1. LV5+ 1500V Solar Inverter Data

Specifications	Units	LV5+ 1525 Solar Inverter	LV5+ 1526 Solar Inverter	LV5+ 1527 Solar Inverter	LV5+ 1528 Solar Inverter
Input Data					
MPPT Range ¹	Vdc	870 - 1300	915 - 1300	955 - 1300	1000 - 1300
Max Permissible DC Voltage	Vdc	1500			
Max Continuous DC Current (at 50°C)	Adc	3200			
Max DC Short Circuit Interrupt Rating	Adc	5000			
Number of MPPT		1			
Number of DC Inputs		up to 24			
Output Data - Low Voltage					
Active AC Output Power (PF=1) ² (at 35°C / 50°C)	MW	2.83 / 2.50	2.97 / 2.63	3.11 / 2.75	3.25 / 2.88
AC Output Voltage (+10% / -10%) ³	Vac	600	630	660	690
Max AC Current (at 35°C / 50°C)	Aac	2718 / 2406			
Grid Frequency ±5%	Hz	50 / 60			
Power Factor (PF) Range		0 - 1 ³			
Current Harmonic Distortion (TDD)	%	<3			
Efficiency & Auxiliary Power					
Inverter Efficiency (Max / EU / CEC) ⁴	%	98.9 / 98.6 / 98.7			
Nighttime Aux Power ⁵	W	210			
Interfaces					
Plant Control Interface / PLC		EtherNet IP / Modbus TCP, OPCUA, EGD			
Programming / Diagnostic Interface		EtherNet IP / Modbus TCP, OPCUA			
Extra Analog and Digital I/O		Option			
Features					
Cooling		Air Cooled			
Emergency Shut Down		Included			
Mounting Options		Piers / Pad / Gravel			
Array Configurations Supported		Negative Pole Grounded or Floating			
Ground Fault Monitoring		Standard for Grounded Arrays, Option for Floating Arrays			

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Nighttime VAR Function				Option	
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 ⁶	dBa			<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 8.5	
Protection Rating and Ambient Conditions					
Operating Temperature Range	°C			-25 to +50	
Storage Temperature Range	°C			-40 to +65	
Cold Weather Option ⁷	°C			-35 to +50	
Humidity	%			5 to 95 (rated for outdoor installation)	
Maximum Altitude Without Derating ⁸	m / ft			2000 / 6562	
Seismic				Zone 2B ASCE 7 / IBC	
Maximum Wind Speed ⁹	kph / mph			250 / 155	
Snow Load				ASCE 7	
IP Class / NEMA Rating				IP 54 / NEMA 3R	
Standards					
Electromagnetic Compatibility (EMC)				EN 61000-6-2, 62920 / CISPR 11	
Certifications				IEC, CE, UL 1741 SA	

¹ At nominal voltage and PF=1

² Implies active power reduction, Altitude ≤ 2000m, grid voltage ≥ nominal voltage

³ Derating will apply according to PQ curves

⁴ Preliminary, excludes auxiliary power losses

⁵ No heating, no cooling, without environmental controls enabled & DC link de-energized

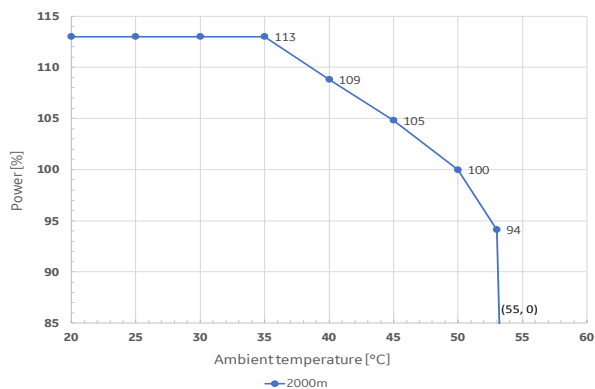
⁶ At 10m in front of enclosure and 1m up from the ground

⁷ Cold weather option on request

⁸ Higher altitudes (with derating) on request

⁹ Maximum wind speed without derating 81 kph / 50 mph

2. Derating Curve (Altitude and Temperature)¹⁰



¹⁰ Applicable for grid voltage ≥ nominal voltage, altitudes >2000m on request