NEOVOLTA POWER

NEOVOLTAPOWER.COM
800.364.5464

NVGAIN-150K313

COMMERCIAL + INDUSTRIAL ENERGY STORAGE

Liquid Cooled Energy Storage System

FEOC COMPLIANT
DOMESTIC CONTENT ELIGIBLE



SPECS

150
kW Rated Output

313.49
kWh Rated Energy

LFP
Cell Chemistry

01
Flexible Capacity Expansion
Main and auxiliary cabinet architecture supports flexible 1+3 scaling and 2–8 hours of continuous discharge.

02
Smart Energy & Liquid Cooling
Smart energy management and liquid cooling optimize system operation and battery temperature control.

03
Versatile Energy Applications
Supports time-of-use energy arbitrage and grid demand response for commercial and industrial applications.

04
Multilevel Safety Protection
Active fire detection and suppression, three-level BMS monitoring, and automatic cluster isolation support system safety.

Performance Data	NVGAIN-150K313	NVGAIN313

DC

Cell Chemistry	LFP
System Battery Configuration	1P52S*6
Rated Energy	313.49 kWh
Battery Rated Voltage	998.4 V
Operating Battery Voltage Range	873.6 - 1123.2 V DC
Standard Charge/Discharge Current	157 A
Max. Charge/Discharge Current	189 A
Max. Charge/ Discharge Rate	0.5C (2hr)

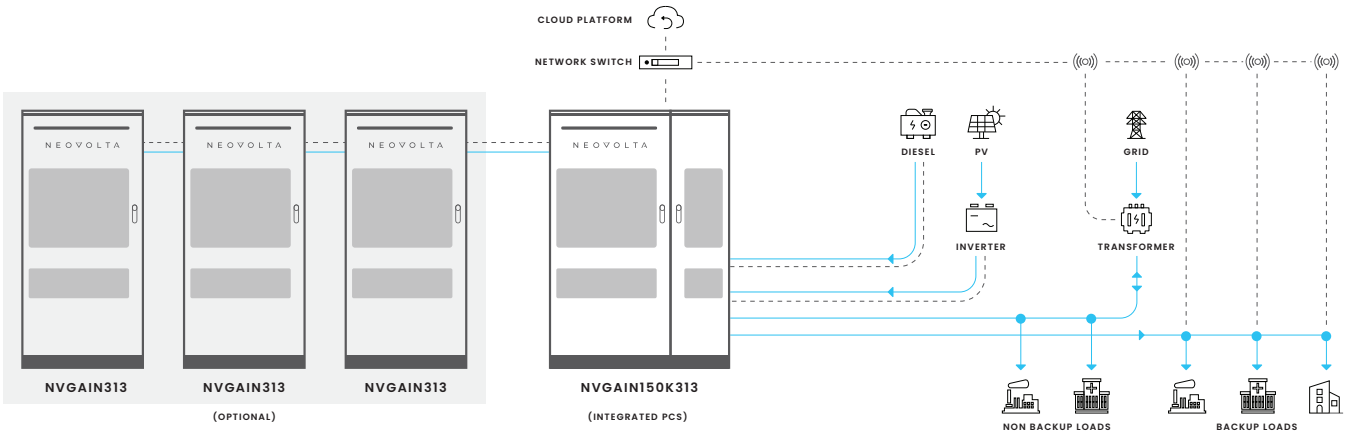
AC

		AC Auxilary Power
Rated Output Power	150 kW	-
Rated Grid Voltage	480 V AC	
AC Connection Method	3P3W	
Nominal Grid Frequency	60 Hz	
Max. THDi	3% (full load)	-
Power Factor	-1 ~ +1	-

General Parameters

Integrated PCS	Integrated	-
DC Only Configurations	-	1
Configurations	1	0 to 3
Weight (t / lbs)	3.5 t / 7716 lbs	3t / 6614 lbs
Dimensions (W × D × H) mm / in	1450 × 1600 × 2360 (mm) / 57 × 62.99 × 92.9 (in)	1068 × 1600 × 2360 (mm) / 42 × 62.99 × 92.9 (in)
Cooling Method	Liquid Cooling	
Max Operating Altitude (m / ft)	2000 m / 6561.7 ft*	
Operating Temperature Range °F / °C	-22 °F to 131 °F / -30 °C to 55 °C**	
Storage Temperature Range °F / °C	Recommended 32°F to 95°F / 0°C to 35°C, ≤ 6 months -4°F to 32°F / -20°C to 0°C, ≤ 1 month 95°F to 113°F / 35°C to 45°C, ≤ 1 month	
Relative Operating Humidity	0 to 95%, RH (no condensation)	
IP Rating	IP55 / Type 3R	
Communication Interface	Ethernet	
Communication Protocol	Modbus TCP	
Fire Control	Aerosol-Based Fire Suppression System	
Standard Compliance***	UL 9540, UL 9540A, UL 1973, UL1741, UL 60730, FCC, NFPA 68, NFPA 69, HMA, NFPA 855, UL 50E	
Warranty	5 Years	

Line Diagram



* Performance under conditions other than those stated may vary. Contact NeoVolta Power for project-specific evaluation. Can be customized for >2000m applications.
** The PCS will derate above 50°C. The chiller will derate above 48°C. Derating between 48°C to 55°.
***Certification activities are currently underway. Certifications will be formally listed upon successful completion of third-party testing and evaluation.

DISCLAIMER The information provided herein is believed to be accurate as of the date of publication. Specifications are subject to change without notice; values are nominal and approximate, and actual performance depends on site conditions, installation and operation. This datasheet does not create any warranty. To the extent permitted by law, NeoVolta is not liable for errors or omissions in, or reliance on, this information.

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