Vertiv[™] NetSure[™] Inverter System



Integrated AC and DC Power System

Benefits

- Free up floor space by powering AC and DC loads in a single system with a common battery bank.
- Minimize energy consumption with 95.2% peak efficiency in normal AC-AC mode.
- Maximize site availability thanks to zero transfer time from grid to battery.
- Seamlessly manage your complete back-up solution locally or remotely through a single interface.
- Factory integrated with NetSure™ 5100 and NetSure™ 7100 power systems.

The integrated Vertiv™ NetSure™ Inverter System powers AC and DC loads in a single factory configured-system with a common battery bank, freeing up floor space while minimizing energy loss and lowering energy consumption.

Improve reliability and save space

The integrated Vertiv™ NetSure™ Inverter AC and DC power system delivers outstanding reliability, modularity and scalability. With market leading power module density, the single system supports your AC and DC loads in a compact footprint Rectifiers and inverters are connected to the same battery bank which not only facilitates zero second transfer time should commercial AC fail, but also saves space and reduces financial investment.

Grow as you go

System sizes range from 5 kVA to 12kVA and accommodate modular 1kVA/1kW AC inverters that allow you to add inverters as your loads increase. They are available in 19" and 23" mounting widths with either 15A NEMA outlets or a bulk feed output. Factory installed inverter systems can be ordered as an option with NetSure™ 5100 or NetSure™ 7100 power systems and will be preconfigured with a common NetSure™ Control Unit (NCU) that provides a single interface for reporting and control of your AC inverter and DC rectifier modules.

Service

- Get the job done right by leveraging a professional team.
- Rest assured your AC/DC power plant is installed properly and configured optimally.
- Reduce risk of long-term damage and protect your warranty.
- Ensure system settings are optimized and meet your standards.

Minimize energy loss

The integrated Vertiv[™] NetSure[™] Inverter Series is designed for efficient operation at any load condition. All models are supported by high-efficiency Vertiv[™] eSure[™] rectifiers and inverters that deliver close to 95% efficiency across a wide operating range. Powering your AC and DC loads with eSure technology helps keep energy loss to a minimum and ensures your network is supported by an extremely reliable backup system.



Technical Specifications for Vertiv™ NetSure™ 5100 Systems

	19" 5 kVA Bulk Output	19" 5 kVA NEMA Output	23" 6 kVA Bulk Output	23" 6 kVA NEMA Output	19" 10 kVA Bulk Output	19" 10 kVA NEMA Output	23" 12 kVA Bulk Output	23" 12 kVA NEMA Output		
	582137100 List 50	582137100 List 51	582137100 List 52	582137100 List 53	582137100 List 54	582137100 List 55	582137100 List 56	582137100 List 57		
AC and DC Input										
Voltage Range	Single phase: 96 VAC to 140 VAC (Nominal: 100 VAC to 125) DC supply: 42 VDC to 58 VDC (Nominal: 48 VDC)									
Line Frequency				50 Hz o	r 60 Hz					
Connections			AC	: Terminal Blocks - D	C: Integrated bus b	oars				
Surge Protection			1.2/50uS+8	3/20us wave, higher	than 6kV/3kA, per	IEC60664-1				
AC Output										
Voltage	Single phase: 120VAC									
Line Frequency	50 Hz or 60 Hz									
Efficiency, Peak	94.8% (AC/AC mode); 92% (DC/AC mode)									
Maxium System Power	5 kVA/5 kW	5 kVA/5 kW	6 kVA/6 kW	5.76 kVA/5.76 kW (per NEC breaker de-rating)	10 kVA/10 kW	10 kVA/10 kW	12 kVA/12 kW	11.5 kVA/11.5 kW (per NEC breaker de-rating		
Distribution	1 x Bulk Output Terminal	4 x NEMA Outlets	1 x Bulk Output Terminal	4 x NEMA Outlets	2 x Bulk Output Terminals	8 x NEMA Outlets	2 x Bulk Output Terminals	8 x NEMA Outlets		
Circuit Breakers	1 x 70A	4 x 15A	1 x 70A	4 x 15A	2 x 70A	8 x 15A	2 x 70A	8 x 15A		
Transfer Time	Os from grid to battery and Os from battery to grid									
Primary Input Modes	AC or DC									
Physical Characteris	tics									
Dimensions (w/o mounting ears) (H x W x D)	3.5" x 17.5" x 16.6" 88.9 x 444.5 x 421.6 mm	3.5" x 17.5" x 16.6" 88.9 x 444.5 x 421.6 mm	3.5" x 21.1" x 16.6" 88.9 x 535.9 x 421.6 mm	3.5" x 21.1" x 16.6" 88.9 x 535.9 x 421.6 mm	7" x 17.5" x 16.6" 177.8 x 444.5 x 421.6 mm	7" x 17.5" x 16.6" 177.8 x 444.5 x 421.6 mm"	7" x 21.1" x 16.6"" 177.8 x 535.9 x 421.6 mm	7" x 21.1" x 16.6" 177.8 x 535.9 x 421.6 mm		
Weight (excluding modules)	21 lbs. / 9.5 kg	21 lbs. / 9.5 kg	24 lbs. / 10.9 kg	24 lbs. / 10.9 kg	31 lbs. / 14.1 kg	31 lbs. / 14.1 kg	36 lbs. / 16.3 kg	36 lbs. / 16.3 kg		
Inverter Slots	5	5	6	6	10	10	12	12		
Environmental										
Temperature Range, Operating	-20°C to +65°C/-4°F to +149°F (full power up to +45°C/113°F)									
Relative Humidity, Operating	<95%									
Altitude	3000 m, 10000 ft. (2000 m, 6562 ft. at full power)									
Standards Complian	ce									
Safety	UL1778; CUL:CSA C22.2 NO.107.3									
EMC	IEC/EN 61000-4-2; IEC/EN 61000-4-5; GR-1089; FCC Part 15 (CFR47); Conducted Emission: Class A; Radiated Emission: Class B									
Environmental	REACH: Material Composition Declaration/ROHS: R10									
1 kVA/1 kW Inverter										
Part Number	11120-1000									



Technical Specifications for Vertiv™ NetSure™ 7100 Systems

	23" 6 kVA Bulk Output	23" 6 kVA NEMA Output	23" 12 kVA Bulk Output	23" 12 kVA NEMA Output					
	582127000 List 50	582127000 List 51	582127000 List 52	582127000 List 53					
AC and DC Input									
Voltage Range	Single phase: 96 VAC to 140 VAC (Nominal: 100 VAC to 125 VAC) DC supply: 42 VDC to 58 VDC (Nominal: 48 VDC)								
Line Frequency	50 Hz or 60 Hz								
Connections	AC: Terminal Blocks - DC: Integrated bus bars								
Surge Protection		1.2/50uS+8/20us wave, higher	than 6kV/3kA, per IEC60664-1						
AC Output									
/oltage	Single phase: 120VAC								
ine Frequency	50 Hz or 60 Hz								
Efficiency, Peak	94.8% (AC/AC mode); 92% (DC/AC mode)								
Maxium System Power	6 kVA/6 kW	5.76 kVA/5.76 kW (per NEC breaker de-rating)	12 kVA/12 kW	11.5 kVA/11.5 kW (per NEC breaker de-rating)					
Distribution	1 x Bulk Output Terminal	4 x NEMA Outlets	2 x Bulk Output Terminals	8 x NEMA Outlets					
Circuit Breakers	1 x 70A	4 x 15A	2 x 70A	8 x 15A					
Transfer Time	Os from grid to battery and Os from battery to grid								
Primary Input Modes	AC or DC								
Physical Characteristics	•								
Dimensions (w/o mounting ears) (H x W x D)	3.5" x 21.1" x 16.6" 88.9 x 535.9 x 421.6 mm	3.5" x 21.1" x 16.6" 88.9 x 535.9 x 421.6 mm	7" x 21.1" x 16.6" 177.8 x 535.9 x 421.6 mm	7" x 21.1" x 16.6" 177.8 x 535.9 x 421.6 mm					
Weight (excluding modules)	24 lbs. / 10.9 kg	24 lbs. / 10.9 kg	36 lbs. / 16.3 kg	36 lbs. / 16.3 kg					
nverter Slots	6	6	12	12					
Environmental									
Temperature Range, Operating	-20°C to +65°C/-4°F to +149°F (full power up to +45°C/113°F)								
Relative Humidity, Operating	<95%								
Altitude		3000 m, 10000 ft. (2000	m, 6562 ft. at full power)						
Standards Compliance									
Safety		UL1778; CUL:CS/	A C22.2 NO.107.3						
EMC	IEC/EN 61000-4-2; IEC/EN 61000-4-5; GR-1089; FCC Part 15 (CFR47); Conducted Emission: Class A; Radiated Emission: Class B								
Environmental	REACH: Material Composition Declaration/ROHS: R10								
l kVA/1 kW Inverter									
Part Number		11120-	1000						

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