Vertiv[™] NetSure[™] Inverter System



Stand-Alone AC Power System

Benefits

- Leverage existing DC power infrastructure with easy to add subrack.
- 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.
- Manage the Netsure inverter system locally or remotely through the Vertiv[™] NetSure[™] Control Unit (NCU).

Service

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

The stand-alone Vertiv[™] NetSure[™] Inverter System allows you to support AC loads from existing DC power systems and batteries.

Improve reliability and save space

The stand-alone NetSure[™] Inverter system delivers outstanding reliability, modularity and scalability. With market leading inverter module density, the system supports your AC 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 24 kVA and accommodate modular 1 kVA/1 kW AC inverters that allow you to add inverters as your loads increase. They are available with bulk distribution in 19" wide shelves or 15A NEMA outlets in 19" or 23" wide shelves. NetSure inverter systems can be used in conjunction with any brand or vintage of DC power system that has sufficient capacity to support the additional inverter load. Integrated inverters systems are also available pre-wired in the factory with NetSure[™] 5100 and NetSure[™] 7100 power systems.

Minimize energy loss

The Vertiv NetSure Inverter Series is designed for efficient operation at any load condition. All models are supported by high-efficiency Vertiv™ eSure™ inverters that deliver up to 95.2% efficiency across a wide operating range. Powering your AC loads with eSure™ technology minimizes energy loss while keeping your network running with an extremely reliable backup system.



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Technical Specifications

	5 kVA Bulk Output	6 kVA Bulk Output	10 kVA Bulk Output	12 kVA Bulk Output	15 kVA Bulk Output	20 kVA Bulk Output
	584130100 List 01	584130100 List 01E	584130100 List 03	584130100 List 03E	584130100 List 05	584130100 List 05
AC Input						
Voltage, Nominal	100 VAC to 125 VAC	100 VAC to 125 VAC	100 VAC to 125 VAC	100 VAC to 125 VAC	-	-
Voltage Range	96 VAC to 140 VAC	96 VAC to 140 VAC	96 VAC to 140 VAC	96 VAC to 140 VAC	-	-
Single or Three-Phase	Single Phase	Single Phase	Single Phase	Single Phase	-	-
Frequency	50 Hz or 60 Hz	50 Hz or 60 Hz	50 Hz or 60 Hz	50 Hz or 60 Hz		-
Maximum Current	60 A	72A	120 A	144 A	-	-
Power Factor	>0.99 @ 100% linear load	>0.99 @ 100% linear load	>0.99 @ 100% linear load	>0.99 @ 100% linear load		
Total Harmonic Distortion	< 5% @ 100% linear load	< 5% @ 100% linear load	< 5% @ 100% linear load	< 5% @ 100% linear load	-	-
DC Input	-	-	-	-		
•						
Voltage, Nominal				48 VDC (nominal)		
Voltage Range	11F A	100 4		o 58.5 VDC	0/5 4	(00.4
Maximum Current	115 A	138 A	230 A	276 A	345 A	460 A
AC Output						
Voltage, Nominal			120	VAC		
Frequency			50 Hz	or 60 Hz		
Maximum Power	5 kVA/ 5kW	6 kVA/6 kW	10 kVA/10 kW	12 kVA/12 kW	15 kVA/15 kW	20 kVA/20 kW
Maximum Current	42 A	50.4 A	84.5 A	100.8 A	126 A	168 A
Peak Efficiency			95.2% AC/A	C, 92% DC/AC		
Temperature Performance	Full power up to +45 °C (+113 °F) at input voltage range of 100 VAC - 125 VAC					
Over Capacity (fault clearing)	105%-125% @40-48V (15 s), 125%-200% (1 s), >200% (120 ms)					
Load Outputs	Bulk Output(s)					
AC Load Distribution						
Circuit Breaker Type				r Switch		
Circuit Breakers	1	1	2	2	4	4
Circuit Breaker Rating			7	0 A		
Monitoring						
Module Name			M	330B		
Local Display			128 x 160 Pi	xels TFT LCD		
Communication			RS232, RS485, Ethernet, U	JSB (for software upgrades)		
Protocols		IPv4, IPv6, HTT		n, SNMPv2, SNMPv3, EEM, SocTpe	e. Rsoc. Modbus	
Analog Inputs	2 batter			peratures, fuel level sensor and m		ce boards
Digital Inputs				acts, 12 load fuses, 6 battery fuses		
Outputs		· ···p - · · · · · · · · · · · · · · · ·		e and (1) mono-stable		
Security				nd RADIUS User Authentication		
IB2 Interface Board				al inputs, 2 temperatures		
IB4 Interface Board				Ethernet port		
SMTEMP Board		0			~	
		0	ptional temperature concentration	or with up to 8 temperature senso	5	
Environmental						
Operating Temperature			-20°C to +65°C/-4°F to +149°I	F (full power up to +45°C/113°F)		
Storage Temperature	-40°C to 70°C / -40°F to +158°F					
Relative Humidity	<95%					
Altitude			3000 m, 10000 ft. (2000	0 m, 6562 ft. at full power)		
Physical Characteristics						
-				701/		
Color	2 El /00 0	E 2E#/122 /		8.75"/222.3 mm	10.05%/011.0	1/1/055.6
Height	3.5" /88.9 mm	5.25"/133.4 mm	7"/177.8 mm		12.25"/311.2 mm	14"/355.6 mm
Width	17.5"/444.5 mm	17.5"/444.5 mm	17.5"/444.5 mm	17.5"/444.5 mm	17.5"/444.5 mm	17.5"/444.5 mm
Depth	16.6"/421.6 mm	16.6"/421.6 mm	16.6"/421.6 mm	17.4"/442.0 mm	17.4"/442.0 mm	17.4"/442.0 mm
Weight (Approximate)	21 lbs	32 lbs	32 lbs	54 lbs	53 lbs	63 lbs
Module Slots	5	10	10	15	15	20
Mounting Width				19"		
Access			Rear	Cabling		
Standards Compliance						
Safety			UL 1778; CUL, C	SA C22.2 NO.107.3		
EMC		IEC/EN 61000-4-2; IEC/EN 610		(FR47); Conducted Emission: Clas	s A; Radiated Emission: Class B	
Ingress Protection				20		
1 kVA/1 kW Inverter Module						
Part Number			1112	0-100		
Warranty						
Standard Warranty			1 Year	Warranty		

Vertiv™ NetSure™ Inverter Series, 19" Stand Alone - NEMA Output



Category	List 07	List 08		
AC Input				
Voltage, Nominal	100 VA	C to 125 VAC		
Voltage Range	96 VAC	to 140 VAC		
Single or Three-Phase	Sing	Je Phase		
Frequency	50 Hz or 60 Hz			
Maximum Current	45A 90A			
Power Factor	>0.99 @ 10	00% linear load		
Total Harmonic Distortion		0% linear load		
DC Input				
Voltage, Nominal	40 to 58.5 VD0	c, 48 VDC (nominal)		
Voltage Range		to 58.5 VDC		
Maximum Current	115 A	230A		
AC Output		2007		
•		0 VAC		
Voltage, Nominal				
Frequency		2 or 60 Hz		
Maximum Power	5 kVA/ 5kW	10 kVA/10 kW		
Maximum Current	42 A	84.5 A		
Peak Efficiency		AC, 92% DC/AC		
Temperature Performance	Full power up to +45 °C (+113 °F) at input voltage range of 100 VAC - 125 VAC			
Over Capacity (fault clearing)	105%-125% @40-48V (15 s), 125%-200% (1 s), >200% (120 ms)			
Load Outputs	5-15R NEMA Outlets			
AC Load Distribution				
Circuit Breaker Type		le Switch		
Circuit Breakers	4	8		
Circuit Breaker Rating	15 A	15 A		
Monitoring				
Module Name	M830B			
Local Display	128 x 160 Pixels TFT LCD			
Communication	RS232, RS485, Ethernet, USB (for software upgrades)			
Protocols	"IPv4, IPv6, HTTPS, RADIUS User Authentication, SNMPv2, SNMPv3, EEM, SocTpe, Rsoc, Modbus"			
Analog Inputs	2 battery currents, 1 load current, 1 bus voltage, 2 battery voltages, 2 ter	nperatures, fuel level sensor and much more with additional interface boards		
Digital Inputs	1 input for status of surge protective device auxiliary con	tacts, 12 load fuses, 6 battery fuses, bi-stable contactor status		
Dutputs	3 LVDs, (2) bi-stał	ole and (1) mono-stable		
Security	HTTPS, SNMPv3 encryption	and RADIUS User Authentication		
IB2 Interface Board	8 relay outputs, 8 dig	ital inputs, 2 temperatures		
IB4 Interface Board	Additiona	l Ethernet port		
SMTEMP Board	Optional temperature concentra	tor with up to 8 temperature sensors		
Environmental				
Operating Temperature	-20°C to +65°C/-4°F to +149	°F (full power up to +45°C/113°F)		
Storage Temperature	-20°C to +55°C/-4°F to +149°F (full power up to +45°C/113°F) -40°C to 70°C / -40°F to +158°F			
Relative Humidity	-40 C to 70 C 7 -40 F to +156 F <95%			
Altitude	دیجی 3000 m, 10000 ft. (2000 m, 6562 ft. at full power)			
Physical Characteristics				
Color				
Height	3.5" /88.9 mm	7"/177.8 mm		
Width	17.5"/444.5 mm	17.5"/444.5 mm		
Depth	1.5 /444.5 mm 16.6*/421.6 mm	17.5 /444.5 mm 16.6"/421.6 mm		
Neight (Approximate)	21 lbs	32 lbs		
Module Slots	5	10		
Mounting Width	19"	19"		
Access	Rear Cablir	ng/Front Outlets		
Standards Compliance				
Safety		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		
Ingress Protection		IP20		
1 kVA/1 kW Inverter Module				
Part Number	111	20-100		
Warranty				

Vertiv™ NetSure™ Inverter Series, 23" Stand Alone - NEMA Output



	6 kVA Outlet Output	6 kVA Outlet Output	12 kVA Outlet Output	12 kVA Outlet Output	18 kVA Outlet Output	24 kVA Outlet Output
AC and DC Input	584130100 List 02	584130100 List 02E	584130100 List 04	584130100 List 04E	584130100 List 06	584130100 List 06
-			100.1/1.0			
Voltage, Nominal	100 VAC to 125 VAC					
Voltage Range	96 VAC to 140 VAC Single Phase					
Single or Three-Phase						
Frequency Maximum Current	72 A	72 A	50 Hz 144 A	or 60 Hz 144 A	216 A	288 A
Power Factor	72 A	72 A			210 A	200 A
Total Harmonic Distortion	>0.99 @ 100% linear load < 5% @ 100% linear load					
DC Input						
Voltage, Nominal				48 VDC (nominal)		
Voltage Range				o 58.5 VDC		
Maximum Current	138 A	138 A	276 A	276 A	414 A	552 A
AC Output						
Voltage, Nominal			120	VAC		
Frequency			50 Hz	or 60 Hz		
Maximum Power	5.76 kVA/5.76 kW (per NEC breaker de-rating)	5.76 kVA/5.76 kW (per NEC breaker de-rating)	11.5 kVA/11.5 kW (per NEC breaker de-rating)	11.5 kVA/11.5 kW (per NEC breaker de-rating)	18 kVA/18 kW (per NEC breaker de-rating)	23 kVA/23 kW (per NEC breaker de-rating)
Maximum Current	50.4 A	50.4 A	100.8 A	100.8 A	151.2 A	199.2 A
Peak Efficiency	95.2% AC/AC, 92% DC/AC					
Temperature Performance		Full po	ower up to +45 °C (+113 °F) at in	put voltage range of 100 VAC - 12	5 VAC	
Over Capacity (fault clearing)	105%-125% @40-48V (15 s), 125%-200% (1 s), >200% (120 ms)					
Load Outputs	5-15R NEMA Outlets					
AC Load Distribution						
Circuit Breaker Type			Toggl	e Switch		
Circuit Breakers	4	4	8	8	16	16
Circuit Breaker Rating				5 A		
Monitoring						
-						
Module Name				330B		
Local Display				ixels TFT LCD		
Communication				JSB (for software upgrades)	Dece Maillere	
Protocols	0 hattar			n, SNMPv2, SNMPv3, EEM, SocTpe		
Analog Inputs	2 Datter			peratures, fuel level sensor and m		ce boards
Digital Inputs		I input for status of surge		acts, 12 load fuses, 6 battery fuses	, DI-STADIE CONTACTOR STATUS	
Outputs				e and (1) mono-stable		
Security IB2 Interface Board				nd RADIUS User Authentication		
IB4 Interface Board				al inputs, 2 temperatures Ethernet port		
SMTEMP Board		0		Ethernet port or with up to 8 temperature senso	r0	
		Ū	priorial temperature concentration	or with up to o temperature senso	13	
Environmental						
Operating Temperature				F (full power up to +45°C/113°F)		
Storage Temperature				/ -40°F to +158°F		
Relative Humidity	<95%					
Altitude			3000 m, 10000 ft. (2000	0 m, 6562 ft. at full power)		
Physical Characteristics						
Color			G	irey		
Height	3.5" /88.9 mm	5.25"/133.4 mm	7"/177.8 mm	8.75"/222.3 mm	12.25"/311.2 mm	14"/355.6 mm
Width	21.1"/535.9 mm	21.1"/535.9 mm	21.1"/535.9 mm	21.1"/535.9 mm	21.1"/535.9 mm	21.1"/535.9 mm
Depth	16.6"/421.6 mm	16.6"/421.6 mm	16.6"/421.6 mm	18.0"/458.7 mm	18.0"/458.7 mm	18.0"/458.7 mm
Weight (Approximate)	24 lbs	37 lbs	37 lbs	61 lbs	61 lbs	73 lbs
Module Slots	6	12	12	18	18	24
Mounting Width				23"		
Access			Rear Cabling	J/Front Outlets		
Standards Compliance						
Safety			UL 1778; CUL, C	SA C22.2 NO.107.3		
EMC		IEC/EN 61000-4-2; IEC/EN 610		CFR47); Conducted Emission: Clas	s A; Radiated Emission: Class B	
Ingress Protection				20		
1 kVA/1 kW Inverter Module						
Part Number			1110	0-100		
			1112			
Warranty						



Ordering Information

19" Wide Systems with Bulk Distribution Output

58413010001	5 kVA system with 5 inverter slots and one (1) 70A distribution breaker
58413010001E	6 kVA system with 10 inverter slots and one (1) 70A distribution breaker
58413010003	10 kVA system with 10 inverter slots and two (2) 70A distribution breakers
58413010003E	12 kVA system with 15 inverter slots and two (2) 70A distribution breakers
58413010005	15 kVA system with 15 inverter slots and four (4) 70A distribution breakers (DC INPUT ONLY)
58413010005E	20 kVA system with 20 inverter slots and four (4) 70A distribution breakers (DC INPUT ONLY)
19" Wide Systems with NEMA Outlet Output	
58413010007	5 kVA system with 5 inverter slots and four (4) NEMA outlets
58413010008	10 kVA system with 10 inverter slots and eight (8) NEMA outlets
23" Wide Systems with NEMA Outlet Output	
58413010002	6 kVA system with 6 inverter slots and four (4) NEMA outlets
58413010002E	6 kVA system with 12 inverter slots and four (4) NEMA outlets
58413010004	12 kVA system with 12 inverter slots and eight (8) NEMA outlets
58413010004E	12 kVA system with 18 inverter slots and eight (8) NEMA outlets
58413010006	18 kVA system with 18 inverter slots and sixteen (16) NEMA outlets
58413010006E	24 kVA system with 24 inverter slots and sixteen (16) NEMA outlets
Modules and Accessories	
1120100	1 kVA/1 kW inverter module
SXA1100035/1	Blank inverter module slot cover
SXA1100035/1 1M830BNA10034162	Blank inverter module slot cover Stand-Alone Inverter System NCU with HTTPS Protocol *1

* One NCU required per stand-alone inverter system (does not occupy an inverter slot). An NCU Integration Kit may be used in place of an NCU if all kit application requirements can be met.

** NCU in NetSure host power system must be loaded with V1.2.41B or higher and there must be an open DI position on the host power system IB2 board.

¹ When the inverter system is being connected to a NetSure DC Power System with an NCU, it is recommended to upgrade the host power system NCU to a Rev B version.

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