NetSure[™] Inverter Series

Converged AC and DC Power System



Benefits

- Free up floor space by powering AC and DC loads in a single subrack with a common battery bank
- Minimize energy consumption with up to 98% rectifier power efficiency* and 96.3% inverter 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

System Elements

- 1. AC & DC Distribution Panel
- 2. NetSure[™] Control Unit
- **3.** eSure[™] Inverters, I230-1200
- 4. eSure™ Rectifiers, R48-2000E3

*Using NetSure[™] 7100 systems with R48-3500E4 rectifiers paired with the stand-alone NetSure Inverter 19" Cassette. The converged NetSure[™] Inverter Series powers AC and DC loads in a single subrack with a common battery bank, freeing up floor space while minimizing energy loss and lowering energy consumption.

Improve reliability and save space

The converged NetSure Inverter AC and DC power system delivers outstanding reliability, modularity and scalability. With market leading power module density, a single system houses both AC and DC power in a compact footprint. Rectifiers and inverters can be fed from the same battery bank, saving additional space and financial investment.

Converged NetSure inverter systems deliver superior reliability and enable hours of battery backup when required. Systems include 1.2kW AC inverters and 2kW rectifiers with up to 14.4kW AC and 24kW DC power in a single system.

To accommodate AC backup needs at existing sites, an easy-to-install 1U high front access NetSure inverter add-on shelf is available that delivers up to 7.2kW.

Minimize energy loss

Converged NetSure inverter systems are designed for efficient operation at any load condition. High-efficiency eSure™ rectifiers are available up to >98% efficiency.* The I230-1200 VAC eSure™ inverter operates up to a market-leading 96.3% efficiency. Powering your AC and DC loads with eSure technology ensures energy loss is kept to a minimum and your network is supported by an extremely reliable backup system.



NetSure™ Inverter System 19", 12 kW DC / 5 kVA AC





Technical Specifications

BacepainBit 20 MD DC/25 KMBY, 20 MD DC/25 KMBY, 10 MD DC/25 KMBY, 10 MD DC/25 KMBY, 10 MD DC/25 KMBY 10 MD DC/25 KMBY	Part Number	02405672 BMK1115601-002	02405671 BMK1115601-001	02405674 BMK1115601-004	02405673 BMK1115601-003	02405676 BMK1115601-006	02405677 BMK1125608-001
Alter Advances Work Start Start	Description	23", 24 kW DC/15 kVA	23", 12 kW DC/7.5 kVA	19", 20 kW DC/12.5 kVA	19", 10 kW DC/6.25 kVA	19", 12 kW DC/5 kVA	19" cassette, 3.75 kVA
any displane short between the series of th	AC Input – Rectifiers						
Line fragoning01/4 00 /4 00 /10 to to 35 -10 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	Range	Single phase: 85 VAC to 300 VAC (Nominal: 200 VAC to 240 VAC)					-
Cancelonand and any any any any any any any any any any	Line Frequency	50 Hz / 60 Hz (45 Hz to 65 Hz)					-
Sing Part Sing Part	Connections	Terminal and input mains circuit breaker					-
Reference </td <td>Surge Protection</td> <td>Included</td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td>	Surge Protection	Included				-	-
BangeSingle place Site View Contained 200 VICUL 2000 VICUL 200	AC and DC Input – Inverters						
Line fragony90 Hz / 04 KP to K3 Hz / SF Hz 63 HJConnectionsNetwina and inguina HzIII<tdi< td="">I<td>Range</td><td colspan="5">Single phase: 185 VAC to 275 VAC (Nominal: 200 VAC to 240 VAC) DC supply: 40 VDC to 58.5 VDC (Nominal: 48 VDC)</td><td></td></tdi<>	Range	Single phase: 185 VAC to 275 VAC (Nominal: 200 VAC to 240 VAC) DC supply: 40 VDC to 58.5 VDC (Nominal: 48 VDC)					
ConcessionHamily Latency Lat	Line Frequency	50 Hz / 60 Hz (47 Hz to 53 Hz / 57 Hz to 63 Hz)					
Singe PropertieselectricelectricAdjuation 200024/W (2 x 0 M)24/W (	Connections	Terminal and input mains circuit breaker					
Provide the set of the set	Surge Protection	Included -					-
Addengement4000000000000000000000000000000000000	DC Output						
<table-container><table-row><math> <table-row>meddedMedded methodMedded </table-row></math></table-row></table-container>	Adjustable Range	-42 VDC to -58 VDC (Nominal: -48 VDC)					-
Laad, Aaxiama2 kW9 kW9 kW0 kW9 kW9 kW9 kWEfficiency, Pack03 k3 k3	Power, Maximum	24 kW (12 x 2 kW)	12 kW (6 x 2 kW)	20 kW (10 x 2 kW)	10 kW (5 x 2 kW)	12 kW (6 x 2 kW)	-
Efficiency, Paak98%Image: Particle State Sta	Load, Maximum	22 kW	10 kW	18 kW	8 kW	10 kW	-
Derivation (3B mm ACBs) Up to 9 x PI (>6.63 A) Up to 10 to 5 x PI (>6.63 A) Up to 6 x PI (>6.63 A) Up to 6 x PI (>6.63 A) 2 x 32 A + 2 x 63 A - Pointly load management Ye s 6 x 32 A ve so -	Efficiency, Peak	96.3%					-
Construction Up to 9 x 1P (2+63 A) Up to 1 3 x 1P (2+63 A) Up to 6 x 1P (2+63 A) Up to 4 x 1P (2+63 A) - MCBs (default configuration) 13 x 32 A 6 x 32 A 2 x 32 A + 2 x 63 A - - Priority (dam management) 9 x 32 A Yes 2 x 20 A circuit breaker - - Battery Connections 3 x 200 A circuit breaker 2 x 200 A circuit breaker - - AC Output Single phase 200 VAC (0 VAC (0 Normati 200 VAC) 2 x 200 A circuit breaker - - Iber Frequency 50 / 60 / 4C (0 Not 00 H/-Lircuit VAC (Normati 200 VAC) VAC (Normati 200 VAC) SiNVAR NW 35 KVAR LW 35 K	DC System Units						
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Note that the second of the s	Battery Connections	3 x 200 A circuit breakers			2 x 200 A circuit breakers		-
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Laad, Maximum125 kVA/32 kW625 kVA/06 kW1125 kVA/108 kW50 kVA/48 kW875 kVA/36 kW25 kVA/24 kWEfficiency, Peak033% Crocendredy 325% (CF033% C	Power, Maximum	15 kVA/14.4 kW (12 x 1.25 kVA/1.2 kW)	7.5 kVA/7.2 kW (6 x 1.25 kVA/1.2 kW)	12.5 kVA/12 kW (10 x 1.25 kVA/1.2 kW)	6.25 kVA/6 kW (5 x 1.25 kVA/1.2 kW)	5 kVA/4.8 kW (4 x 1.25 kVA/1.2 kW)	3.75 kVA/3.6 kW (3 x 1.25 kVA/1.2 kW)
Efficiency, Peak96.3% (Ac mode); 93.5% (DC = V=V=V=V=V=V=V=V=V=V=V=V=V=V=V)AC system UnitsA C system UnitsUp to 9 x IP (32.00 A recommended)Up to 7 x IP (32.00 A recommended)Up to 3 x IP (32.00 A recommended)Up to 7 x IP (32.00 A recommended)Up to 3 x IP (32.00 A recommended)	Load, Maximum	13.75 kVA/13.2 kW	6.25 kVA/6.0 kW	11.25 kVA/10.8 kW	5.0 kVA/4.8 kW	3.75 kVA/3.6 kW	2.5 kVA/2.4 kW
AC System UnitsDist of a View of	Efficiency, Peak	96.3% (AC mode); 93.5% (DC mode)					
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DC Current ConsumedMax 27 A per inverter motive 48 VDC)Manual BypassStandardStandardStandardNANAPhysical CharacteristicsDimensions (H x W x D)S541 x 583.6 x 367.0 mm465.0 x 583.6 x 367.0 mm465.0 x 482.5 x 367.0 mm289.0 x 482.5 x 367.0 mm441 x 482.5 x 367.0 mmWight (excluding modules)45 kg42 kg39 kg36 kg20 kg4 kgAccess and SecurityFront access, IP20	Transfer Performance	Os from grid to battery					
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Physical CharacteristicsDimensions (H x W x D)\$54,1 x 583.6 x 367.0 mm\$65.0 x 583.6 x 367.0 mm\$65.0 x 482.5 x 367.0 mm\$4.1 x 482.5 x 367.0 mmWeight (excluding modules)45 kg42 kg39 kg36 kg20 kg4 kgAccess and SecurityFort access, IP20	Manual Bypass	Standard	Standard	Standard	Standard	NA	NA
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Weight (excluding modules)45 kg42 kg39 kg36 kg20 kg4 kgAccess and SecurityFront access, IP20 Environmental For to +65 °C (full power Jer Set Set Set Ciful power Jer Set	Dimensions (H x W x D)	554.1 x 583.6 x 367.0 mm	465.0 x 583.6 x 367.0 mm	554.1 x 482.5 x 367.0 mm	465.0 x 482.5 x 367.0 mm	289.0 x 482.5 x 367.0 mm	44.1 x 482.5 x 367.0 mm
Access and Security Front access, IP20 Environmental Front access, IP20 Temperature Range, Operating -5 °C to +65 °C (full power up to +45 °C) Relative Humidity, Operating -95% Altitude 3000 m, 10000 ft. (2000 m, 6562 ft. at full power) Standards Compliance Electrical Electrical EN 62368-1:2014/A11:2017, EN 62040-1:2008+A1:2013 EMC ETSI EN 300 386 V2.1.1 (conducted class A, Radiated class B) Environmental REACH. RoHS 6	Weight (excluding modules)	45 kg	42 kg	39 kg	36 kg	20 kg	4 kg
Environmental Temperature Range, Operating -5 °C to +65 °C (full power up to +45 °C) Relative Humidity, Operating -95% Altitude 3000 m, 10000 ft. (2000 m, 6562 ft. at full power) Standards Compliance	Access and Security	Front access, IP20					
Temperature Range, Operating -5 °C to +65 °C (full power up to +45 °C) Relative Humidity, Operating <95%	Environmental						
Relative Humidity, Operating <95% Altitude 3000 m, 10000 ft. (2000 m, 6562 ft. at full power) Standards Compliance Electrical EN 62368-1:2014/A11:2017, EN 62040-1:2008+A1:2013 EMC ETSI EN 300 386 V2.1.1 (Conducted class A, Radiated class B) Environmental REACH. RoHS 6	Temperature Range, Operating	-5 °C to +65 °C (full power u	p to +45 °C)				
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Environmental REACH. RoHS 6	EMC	ETSI EN 300 386 V2.1.1 (Conducted class A, Radiated class B)					
	Environmental	REACH, RoHS 6					

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