

Backup Interface

for North America

BI-EUSGN-02 / BI-NUSGN-02



Backup Interface for Flexible Backup

- Automatically provides backup power to home loads in the event of grid interruption
- Full flexibility in which loads to backup - the entire home or selected loads
- Scalable solution to support higher power & higher capacity^(*)
- Built-in Auto Transformer and Energy Meter for easier and faster installation
- Seamless integration with the Energy Hub Inverter with Prism Technology to manage and monitor both PV generation and energy storage
- Generator connection support^(*)

^(*) Requires supporting inverter firmware

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	BI-EUSGN	BI-NUSGN
INPUT FROM GRID		
AC Current Input	200	A
AC Output Voltage (Nominal)	240	Vac
AC Output Voltage Range	211 - 264	Vac
AC Frequency (Nominal)	60	Hz
AC Frequency Range	59.3 - 60.5	Hz
Microgrid Interconnection Device Rated Current	200	A
Service Side AC Main Circuit Breaker Rated Current	200	N/A
Service Side AC Main Circuit Breaker Interrupt Current	10000	N/A
Grid Disconnection Switchover Time	<100	ms
OUTPUT TO MAIN DISTRIBUTION PANEL		
Maximum AC Current Output	200	A
AC L-L Output Voltage (Nominal)	240	Vac
AC L-L Output Voltage Range	211 - 264	Vac
AC Frequency (Nominal)	60	Hz
AC Frequency Range	59.3 - 60.5	Hz
Maximum Inverters AC Current Output in Backup Operation	144	A
Imbalance Compensation in Backup Operation	5000	W
AC L-N Output Voltage in Backup (Nominal)	120	V
AC L-N Output Voltage Range in Backup	105 - 132	V
AC Frequency Range in Backup	55 - 65	Hz
INPUT FROM INVERTER		
Number of Inverter Inputs	Up to 3	#
Maximum Rated AC Power in On-Grid and Backup Operation	11400	W
Maximum Continuous Current in On-Grid and Backup Operation	48	A
Factory Installed Inverter Input AC Circuit Breaker	40	A
Upgradability	Up to 3 X 63A CB ⁽¹⁾	
GENERATOR⁽²⁾		
Maximum Rated AC Power	15000	W
Maximum Continuous Input Current	63	Adc
Dry Contact Switch Voltage Rating	250/30	Vac/Vdc
Dry Contact Switch Current Rating	5	A
2-wire Start Switch	Yes	
ADDITIONAL FEATURES		
Installation Type	Suitable for use as service equipment	For main lug only
Number of Communication Inputs	2	
Communication	RS485	
Energy Meter (for Import/Export)	1.25% accuracy	
Manual Control Over Microgrid Interconnection Device	Yes	

(1) Each 40A CB supports up to one 7.6kW inverter, with each 63A CB supporting one 10kW and one 11.4kW inverter. The CB upgrade kit is available with the following part numbers: for 40A CB, CB-UPG-40-01; for 63A, CB CB-UPG-63-01. 20A, 30A and 50A breakers can be used for inverters with lower power ratings.

(2) Requires supporting inverter firmware

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	BI-EUSGN	BI-NUSGN
STANDARD COMPLIANCE		
Safety	UL1741, CSA 22.2 NO. 107	
	UL869A	N/A
Emissions	FCC part 15 class B	
INSTALLATION SPECIFICATIONS		
Supported Inverters	StorEdge single phase inverter, Single phase Energy Hub inverter with Prism technology	
AC From Grid Conduit Size / AWG Range	2" conduit / 0 AWG - 4/0	
AC Inverter Conduit Size / AWG Range	1" conduit / 14 - 4 AWG	
AC Generator Input Conduit Size / AWG Range	1" conduit / 8 - 3 AWG	
Communication Conduit Size / AWG Range	3/4" / 24 - 10 AWG	
Weight	73 / 33	lb / Kg
Cooling	Fan (user replaceable)	
Noise	< 50	dBA
Operating Temperature Range	-40 to +122 / -40 to +50	
Protection Rating	NEMA 3R, IP44	
Dimensions (HxWxD)	20.59 x 13.88 x 8.62 / 523.5 x 352.5 x 219	
		in / mm