

SolarEdge Home

Backup Interface for North America

BI-E / BI-N



HOME BACKUP

Backup Interface for Flexible Backup

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

^(*) Requires supporting inverter firmware

/ SolarEdge Home Backup Interface

For North America

BI-E / BI-N

	BI-E	BI-N	
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		22500	W
Maximum Continuous Input Current		94	Aac
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% accuracy	
Manual Control Over Microgrid Interconnection Device		Yes	

(1) Each 40A CB supports up to one 7.6kW inverter, while each 63A CB supports up to one 11.4kW inverter. The CB upgrade kit is available with the following part numbers:

- For 40A, CB-UPG-40-01
- For 63A, CB-UPG-63-01

20A, 30A and 50A breakers can be used for inverters with lower power ratings.

(2) Requires supporting inverter firmware.

/ SolarEdge Home Backup Interface

For North America

BI-E/ BI-N

	BI-E	BI-N	
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, SolarEdge Home Hub Inverter		
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		*F / °C
Protection Rating	NEMA 3R, IP44		
Dimensions (HxWxD)	20.59 x 13.88 x 8.62 / 523.5 x 352.5 x 219		in / mm

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

-  SolarEdge
-  @SolarEdgePV
-  @SolarEdgePV
-  SolarEdgePV
-  SolarEdge
-  www.solaredge.com/corporate/contact

solaredge.com

© SolarEdge Technologies, Ltd. All rights reserved. SOLAREEDGE, the SolarEdge logo, OPTIMIZED BY SOLAREEDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: July 4, 2023 DS-000103-NAM Subject to change without notice.

Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

