SolarEdge Home Backup Interface
Single Phase, for Europe

BI-EU1P

12 YEAR WARRANTY

Flexible Backup Interface

/ Automatically provides backup power to home loads in the event of grid interruption

/ Flexibility in which loads to back up - the entire home or selected loads

/ Scalable solution to support higher power & higher capacity

/ Seamless integration with the SolarEdge Home Hub Inverter to manage and monitor both PV generation and energy storage

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	BI-EU1P[1]	UNITS
GRID CONNECTION		
AC Current Input	100	A
AC Voltage Line – Neutral (Min/Nom/Max)	184 / 230 / 264	V
AC Frequency Range	50 / 60	Hz
On Grid to Off Grid Switchover Time	< 3	sec
OUTPUT TO DISTRIBUTION PANEL		
Maximum AC Current Output	100	A
AC Voltage Line – Neutral (Min/Nom/Max)	184 / 230 / 264	V
AC Frequency Range	50 / 60	Hz
Overvoltage Category	III	
ADDITIONAL FEATURES		
Supported Grid Topologies	TT; TN-S; TN-C-S[2]	
Operation During Backup	Disconnection of phase + N from external grid; PE to Neutral connection on load side / disconnection configuration option on internal grid	
Communication	RS485	
Energy Meter (for Import/Export)	Integrated[3], 1.25% accuracy	
Manual Control Over Microgrid Interconnection Device	Yes	
STANDARD COMPLIANCE		
Safety	IEC/EN 62109-1	
Emissions	IEC 61000-6-2; IEC 61000-6-3; IEC 61000-3-11; IEC 61000-3-12; EN 55011	
INSTALLATION SPECIFICATIONS		
Supported Inverters	SolarEdge Home Hub Inverter – Single Phase	
AC from Grid / Loads Conductor Cross Section	6 – 25	mm^2
Grid / Loads Conduit Diameter	14 – 22	mm
Communication Cable Cross Section	0.2 – 1.5	mm^2
Communication Gland Diameter	5 – 15	mm
Weight	< 5	kg
Noise	< 50	dBA
Operating Temperature Range	-40 to +50	°C
Relative Humidity Range	0 – 100	%
Protection Rating	IP65 – outdoor and indoor	
Dimensions (H x W x D)	390 x 238 x 147	mm
Pollution Degree	3	
Maximum Altitude Rating	2000	m

(1) Applicable for PN BI-NEUNU-1P-01.
(2) For other topologies please consult with SolarEdge support.
(3) Pending firmware support.

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