# 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

solar**edge**

# / SolarEdge Home Backup Interface
## Single Phase, for Europe
### BI-EU1P

| | 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 and SolarEdge Home Network[3] | |
| 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, EN55011 | |
| **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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