

# BACKUP

## SolarEdge Home Backup Interface Single Phase, for Europe

BI-EU1P



### 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

# / SolarEdge Home Backup Interface

## Single Phase, for Europe

### BI-EU1P

|                                                      | BI-EU1P <sup>(1)</sup>                                                                                                                        | UNITS           |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>GRID CONNECTION</b>                               |                                                                                                                                               |                 |
| 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             |
| <b>OUTPUT TO DISTRIBUTION PANEL</b>                  |                                                                                                                                               |                 |
| 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                                                                                                                                           |                 |
| <b>ADDITIONAL FEATURES</b>                           |                                                                                                                                               |                 |
| Supported Grid Topologies                            | TT, TN-S, TN-C-S <sup>(2)</sup>                                                                                                               |                 |
| Operation During Backup                              | Disconnection of phase + N from external grid;<br>PE to Neutral connection on load side / disconnection configuration option on internal grid |                 |
| Communication                                        | RS485 and SolarEdge Home Network <sup>(3)</sup>                                                                                               |                 |
| Energy Meter (for Import/Export)                     | Integrated <sup>(3)</sup> , 1.25% accuracy                                                                                                    |                 |
| Manual Control Over Microgrid Interconnection Device | Yes                                                                                                                                           |                 |
| <b>STANDARD COMPLIANCE</b>                           |                                                                                                                                               |                 |
| Safety                                               | IEC/EN 62109-1                                                                                                                                |                 |
| Emissions                                            | IEC 61000-6-2, IEC 61000-6-3, IEC 61000-3-11, IEC 61000-3-12, EN55011                                                                         |                 |
| <b>INSTALLATION SPECIFICATIONS</b>                   |                                                                                                                                               |                 |
| Supported Inverters                                  | SolarEdge Home Hub Inverter – Single Phase                                                                                                    |                 |
| AC from Grid / Loads Conductor Cross Section         | 6 – 25                                                                                                                                        | mm <sup>2</sup> |
| Grid / Loads Conduit Diameter                        | 14 – 22                                                                                                                                       | mm              |
| Communication Cable Cross Section                    | 0.2 – 1.5                                                                                                                                     | mm <sup>2</sup> |
| 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.