

SolarEdge Home Backup Interface

For Australia

BI-AU1P



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 & higher capacity
- / 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

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Part Number	BI-NAUGN-01	Units
Model Number	BI-AU1P	
INPUT FROM GRID		
AC Current Input	100	A
AC Output Voltage (Nominal)	230	Vac
AC Output Voltage Range	160 – 264	Vac
AC Frequency (Nominal)	50	Hz
AC Frequency Range	45 – 55	Hz
Microgrid Interconnection Device Rated Current	100	A
Grid Disconnection Switchover Time	< 3	sec
OUTPUT TO MAIN DISTRIBUTION PANEL		
Maximum AC Current Output	100	A
AC Frequency (Nominal)	50	Hz
AC Frequency Range	45 – 55	Hz
Maximum Inverters AC Current Output in Backup Operation	100	A
AC L-N Output Voltage in Backup (Nominal)	230	V
AC L-N Output Voltage Range in Backup	160 – 264	V
AC Frequency Range in Backup	45 – 55	Hz
Overvoltage Category	III	
GENERATOR⁽¹⁾		
Maximum Rated AC Power	23000	W
Maximum Continuous Input Current	100	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	
Number of Communication Inputs	1	
Communication	RS485	
Manual Control Over Microgrid Interconnection Device	Yes	
STANDARD COMPLIANCE		
Safety	IEC/EN 62109-1	
Emissions	AS/NZS CISPR 32	
INSTALLATION SPECIFICATIONS		
Supported Inverters	SolarEdge Home Hub Inverter	
AC From Grid Conductor Cable Area	6 – 16	mm ²
Grid / Loads Conduit Size ⁽²⁾	25 – 32	mm
AC Conductor Cable Area	4 – 10	mm ²
Generator Conductor Cable Area Range	4 – 16	mm ²
Generator Conduit Size ⁽¹⁾⁽²⁾	25 – 32	mm
Communication Cable Conductor Area	0.02 – 1.5	mm ²
Communication Gland Size	5 – 15	mm
Weight	< 4	kg
Noise	< 50	dBA
Operating Temperature Range	-40 to +50	°C
Relative Humidity Range	0 – 100	%
Protection Rating	IP65	
Dimensions (H x W x D)	390 x 238 x 147	mm
Environmental Category	Outdoor	
Pollution Degree	3	
Maximum Altitude Rating	2000	

(1) Requires supporting inverter firmware.

(2) All cable entries must be sealed to a minimum of IP65 level. Failure to do this can invalidate the product warranty.