

# Growatt GBLI3331 Lithium battery

- Compact size and easy installation
- High energy density and efficiency
- Excellent safety of LiFePO4 battery
- DoD up to 93%



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## Battery Data

|                              |            |
|------------------------------|------------|
| Nominal Voltage              | 51.2V      |
| Normal Capacity              | 3.3kWh     |
| Usable Capacity              | 3kWh       |
| Operating voltage            | 48 ~ 57.6V |
| Charging/Discharging Current | 32A/42.5A  |
| Rated discharging power      | 1.64KW     |
| MAX discharging power        | 2.5KW/3s   |

## General Data

|                     |                  |
|---------------------|------------------|
| Dimension (W/D/H)mm | 444*131*394 (±1) |
| Weight              | 30Kg             |
| IP Protection       | IP20             |
| Working temperature | -10°C~+50°C      |
| Storage Temperature | -20°C~+45°C      |

## Features

|                     |                        |
|---------------------|------------------------|
| DoD                 | 93%                    |
| Cycle Life          | > 6000 (25°C, 90% DOD) |
| Parallel Connection | Max .6pack             |
| Communication Port  | CAN2.0 / RS485         |
| Warranty            | 10 Years               |

IEC62619 , CE , UN38.3

\* When the temperature is below 0 °C or above 45°C, the performance will be limited.

# Growatt SPA1000~3000TL BL

- IP65 & Natural cooling
- Supports retrofit & New system
- Compatible with 1 & 3 phase system
- Workmodes programmable
- Online Smart Service



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| Datasheet†  | SPA1000TL BL               | SPA2000TL BL               | SPA3000TL BL               |
|---|----------------------------|----------------------------|----------------------------|
| <b>AC connection</b>  |                            |                            |                            |
| Rated AC apparent power   | 1000VA                     | 2000VA                     | 3000VA                     |
| Max. AC current   | 6A                         | 10A                        | 16A                        |
| AC nominal voltage (range)                                      | 230V (180V-270V)           | 230V (180V-270V)           | 230V (180V-270V)           |
| AC grid frequency (range)                                       | 50Hz / 60Hz (±5Hz)         | 50Hz / 60Hz (±5Hz)         | 50Hz / 60Hz (±5Hz)         |
| Power factor, configurable                                      | 1, 0.8leading...0.8lagging | 1, 0.8leading...0.8lagging | 1, 0.8leading...0.8lagging |
| THDi  | <3%                        | <3%                        | <3%                        |
| AC connection   | Single phase               | Single phase               | Single phase               |
| <b>AC output power (Back-up)</b>                                |                            |                            |                            |
| Rated AC output apparent power                                  | 1000VA                     | 2000VA                     | 3000VA                     |
| Rated AC output voltage   | 230V                       | 230V                       | 230V                       |
| Rated AC output frequency                                       | 50Hz / 60Hz                | 50Hz / 60Hz                | 50Hz / 60Hz                |
| <b>Battery data</b>   |                            |                            |                            |
| Battery voltage range   | 42~59V                     | 42~59V                     | 42~59V                     |
| Max charging voltage  | 58V                        | 58V                        | 58V                        |
| Max charging and discharging current                            | 24A                        | 44A                        | 66A                        |
| Peak charging and discharging power                             | 1000W                      | 2000W                      | 3000W                      |
| Battery Type  | Lithium /Lead-acid         | Lithium /Lead-acid         | Lithium /Lead-acid         |
| Capacity of battery   | 50~2000AH                  | 50~2000AH                  | 50~2000AH                  |
| <b>Efficiency</b>   |                            |                            |                            |
| Max. Charge efficiency  | 92.5%                      | 94.0%                      | 94.5%                      |
| Max. Discharge efficiency                                       | 92.0%                      | 93.5%                      | 94.0%                      |
| <b>Protection devices</b>                                       |                            |                            |                            |
| Battery reverse protection                                      | yes                        | yes                        | yes                        |
| Output over current protection                                  | yes                        | yes                        | yes                        |
| Output over voltage protection-varistor                         | yes                        | yes                        | yes                        |
| Ground fault monitoring   | yes                        | yes                        | yes                        |
| Grid monitoring   | yes                        | yes                        | yes                        |
| Integrated all - pole sensitive leakage current monitoring unit | yes                        | yes                        | yes                        |
| <b>General Data</b>   |                            |                            |                            |
| Dimensions (W / H / D) in mm                                    | 428/458/180                | 428/458/180                | 428/458/180                |
| Weight  | 17kg                       | 17kg                       | 17kg                       |
| Operating temperature range                                     | - 25°C ... +60°C           | - 25°C ... +60°C           | - 25°C ... +60°C           |
| Noise emission (typical)  | ≤ 25 dB(A)                 | ≤ 25 dB(A)                 | ≤ 25 dB(A)                 |
| Altitude  | 2000m                      | 2000m                      | 2000m                      |
| Self-Consumption  | <4W                        | <4W                        | <4W                        |
| Inverter Topology   | transformerless            | transformerless            | transformerless            |
| DC/DC topology  | HF transformer             | HF transformer             | HF transformer             |
| Cooling concept   | Natural                    | Natural                    | Natural                    |
| Environmental Protection Rating                                 | IP65                       | IP65                       | IP65                       |
| Relative humidity   | 100%                       | 100%                       | 100%                       |
| <b>Features</b>   |                            |                            |                            |
| AC connection   | connector                  | connector                  | connector                  |
| Battery connection  | Screw                      | Screw                      | Screw                      |
| Display   | LCD                        | LCD                        | LCD                        |
| Interfaces: RS485/ USB /CAN/WI-FI/RF                            | yes/yes/yes/opt/opt        | yes/yes/yes/opt/opt        | yes/yes/yes/opt/opt        |
| Warranty:5 years/10 years                                       | yes/opt                    | yes/opt                    | yes/opt                    |

CE, IEC621109, G98, VDE0126-1-1, VDE-AR-N4105, CE 0-21, IEC62116&IEC61727, EN50438, AS4777, AS/NZS 3100