

Solar container communication station inverter room bbu





Overview

What ICs are included in a BBU module?

Aside from power conversion ICs, the BBU module incorporates the MAX32690, an ultra low power Arm ® microcontroller, responsible for overall system operation. The LTC2971, a 2-channel power system manager, is used for precision sensing and fault detection of the power path, as well as a crucial voltage droop function.

What is a battery backup unit (BBU)?

In data centers, they serve as bridge power sources until primary power sources recover and are considered essential infrastructure for enhancing overall system reliability. Battery Backup Units (BBUs) are specifically designed to provide short-term backup power for several seconds to minutes during momentary power fluctuations or outages.

How many kW can a BBU module provide?

These are the following: Battery pack capacity: The BBU module can provide 3 kW backup power not more than 4 mins over a period of 4 years. Battery cell type: The BBU module should have a Li-Ion 18650 type with 3.5 V to 4.2 V cell voltage, a minimum of 1.5 AH battery capacity, and a 30 A continuous rated discharge current.

What is a BBU module?

Battery pack configuration: The BBU module would have a battery pack configuration of 11S6P (six cells parallel strings of 11 cells in series each string). Also, the BBU module is required to have a BMS for battery charge/discharge algorithms, protections, control signals, and interfaces for communication.



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