

Battery safety value for uninterrupted power supply of solar container communication station





Overview

What is UPS battery capacity?

The UPS battery capacity is, at all times, to be capable of supplying the designated loads for the time specified in the regulations. 53.3 On restoration of the input power, the rating of the charge unit shall be sufficient to recharge the batteries while maintaining the output supply to the load equipment.

What causes a ups to operate in stored energy mode?

[IEC 62040-3:2021] Variation in the AC input power which could cause the UPS to operate in stored energy mode. Converter which has the functions of both a rectifier and an inverter, and which can reverse the flow of power from AC to DC and vice-versa. [IEC 62040-3:2021] 31.

What happens if AC input power is out of pre-set tolerances?

When the AC input power is out of UPS pre-set tolerances, the UPS enters stored energy mode. where under normal operation the output load is powered from the bypass line (raw mains) and only transferred to the inverter if the bypass supply fails or goes outside preset limits.

Do I need to connect additional circuits to the UPS unit?

53.2 No additional circuits are to be connected to the UPS unit without verification that the UPS unit has adequate capacity. The UPS battery capacity is, at all times, to be capable of supplying the designated loads for the time specified in the regulations.



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