

Base station power supply standard specification





Overview

What is the output voltage of a standalone PSU?

A standalone PSU will have the output voltage factory set at 12.20V +/-12.5mV. A standalone PSU will have a voltage drop of 100mV with a load change from 5% to 95%, voltage measured on the PDB's mating power connector. Bandwidth for the droop shall be equivalent to the main rail voltage regulation loop.

How many volts should a PSU be in standby mode?

This means in standby mode the main output of the PSU shall be zero amps and zero volts. Sensors shall meet requirements from 100VAC to 127VAC and from 200VAC to 240VAC (or -36VDC to -75VDC for DC input power supplies). They shall be tested down to 5% load.

What OTW level should a power supply be set to?

The OTW level must be set at least 4°C lower than the OTP level to guarantee a warning condition is reported to the system before a shutdown condition. The power supply shall incorporate a fan for cooling the power supply.

What data should be provided in a power supply?

The power supply shall provide input power data in watts. The data shall be reported using the PMBus linear format. The data shall be the average input power or filtered input power. If a simple average is used to provide average input power, the minimum averaging duration shall be 2 seconds.



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