

ContainerPower Energy Solutions

City Communication Base Station Inverter Grid Connection Construction Plan



Overview

Which inverter settings should be approved by the company?

settings shall be approved by the Company. IEEE 1547 compliant and UL-1741 certified¹⁸ inverters shall be equipped with an internal active anti-islanding scheme, under voltage (27), over voltage (59), under frequency (81U) and over frequency (81O) relays.

Which inverter settings should be submitted with the WTP?

Inverter settings, as presented by EPRI's Common File Format for DER Settings Exchange and Storage, shall be submitted with the WTP. EPRI's Guidance Document can be found here²⁷ , and is publicly available. All required equipment test reports shall be submitted per ESB 751 prior to final WTP acceptance.

What is a microgrid interconnection device?

Microgrid Interconnection Device (MID): A device capable of allowing a DER to separate from the Area EPS source and transition to standalone mode. NRTL: Nationally Recognized Testing Laboratory, as defined by OSHA. Non-certified DER: Any induction or synchronous DER, or a non-UL 1741 inverter.

Which inverter types will be reviewed under section 76.12.5 requirements?

Any inverter type generation established as frequency and/or voltage regulating or Var supportive will be reviewed under Section 7.6.12.5 requirements. DER threshold values shall be analyzed in aggregate where multiple DER projects are supplied from a single point of connection to the EPS.

Do utility interactive inverters regulate frequency and voltage?

Utility interactive inverters evaluated under these requirements shall not actively regulate frequency and/or voltage or provide Var support functions. Any inverter type generation established as frequency and/or voltage

regulating or Var supportive will be reviewed under Section 7.6.12.5 requirements.

When will a bi-directional electric vehicle charging inverter be accepted?

NOTE: Effective September 1st, 2023, Bi-directional electric vehicle charging inverters certified to UL-1741 Supplement A (SA) will be accepted by the Company prior to July 1st, 2024. Bi-directional electric vehicle charging inverter applications received post July 1st, 2024, shall be certified to UL-1741 Supplement B (SB).

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