

# Charles Cabinet Solutions for Electric Utilities' PLTE & FAN Networks

For Electric Utilities big and small, today's "Internet of Things (IoT)" demands a well-planned Wireless Broadband Network to connect all the smart nodes residing on the edge of the electric grid. These smart nodes include AMI, smart distribution switches, smart meters, security cameras, drone communications for grid monitoring, crew vehicles, substations and facilities, building power monitoring and water facilities, just to name a few.

Wireless broadband is the lowest cost option for providing low latency connections between these nodes. Electric Utilities identify these wireless networks as either Private LTE (PLTE) or Field Area Networks (FAN).

Needless to say, reliability and security are top concerns for every fiber transmission, distribution, and termination point along the way. That's where Charles Industries comes in. Charles has worked with utility providers to develop right-sized, cost-efficient thermal and

environmental enclosures to house and protect the mission-critical equipment remotely deployed at smart nodes across PLTE and FAN networks, no matter the environment.

From large modular and stand-alone cabinets to compact remote terminals, Charles' enclosure solutions are designed for flexibility in supported fiber architectures, rapid on-site deployments, and reliable long-life performance. A wide range of options include battery chambers, integrated power systems, rectifiers, breakers, load centers and more.

Talk with our enclosure experts to discuss PLTE and FAN enclosure solutions that are right for you, and take advantage of our in-house thermal analysis capabilities to ensure the optimal choices for your particular locations. As part of the global community of Amphenol companies, Charles can also address your fiber cabling needs for a complete, integrated solution that saves installation time and labor costs.



## CUBE Modular Cabinet Series

Offers the ultimate in flexibility for outdoor enclosure deployments. Up to four (4) standard (single) bays may be mixed and matched for a multitude of configurations to suit a specific application.

### More Info:

<https://www.charlesindustries.com/product/modular-cabinets-cube-modular-series/>



## CUBE Site Support (SS) Cabinet Series

Supports separate chambers for power and electronics, as well as various battery technologies. May be mounted on Charles CPAD composite material mounting platforms for quick on-site installations.

### More Info:

<https://www.charlesindustries.com/product/site-support-cabinets-cube-ss-series/>



## CUBE PM (Pad Mount) Series Cabinets

For high-density installations offering ample room (16RU to 44RU) for rack mounted electronics. May be mounted on Charles CPAD composite material mounting platforms for quick on-site installations.

### More Info:

<https://www.charlesindustries.com/product/pad-mount-equipment-cabinets-cube-pm-series-cabinets/>



## FAN Remote Cabinets

Mount to utility poles or on the side of a utility box. Serves as a multi-purpose outdoor enclosure for various electronic components and equipment.

### More Info:

<https://www.charlesindustries.com/product/multi-purpose-cabinets-cube-mp-series-cabinets/>

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