



Converter support

Supported Converters	Multi-vendor compatibility. Easily integrate with any PCS unit - including CE+T 30C, CE+T 30C3, Ampt Optimizers, Alencon SPOT, Alencon BOSS, and more.
PCS Parallel Operation	Supports parallel operation of Power Conversion Systems. Equal power sharing and droop configurations.

Meter Support

Power/Energy Meter	Compatible with standard power and energy meters - including Accuenergy, Measurlogic DTS and more.
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Energy Storage/BMS Support

Storage/BMS	Supports direct communication with battery management systems (BMS) for real-time monitoring and control.
Battery Management	State of charge (SoC) tracking, charge/discharge limits, safety interlocks

Control/Operation Modes

Manual Charge-Discharge	User-initiated charging/discharging of energy storage for on-demand control.
Manual Peak Shave	Reduces peak demand by discharging stored energy during high-load periods to minimize costs.
Planned Operation	Automated mode with Energy Arbitrage (buying low/selling high) and Auto Peak Shave . Configurable with up to four time slots for scheduling charge, discharge, and peak shave. Supports separate summer/winter and weekday/weekend schedules.
Self-Consumption	Use the grid as backup power. Prioritizes self-generated and stored power (e.g., solar, storage, genset, fuel cell) over grid import to maximize efficiency and reduce costs.
Additional Modes	E-Stop (emergency shutdown) and Maintenance Mode (system shutdown for servicing).

Interfaces

Supported Communication Protocols	Modbus TCP, CAN bus, MQTT, NATS
Ethernet Interface	2x RJ45 (10/100 Mbps) + additional network switch
Digital I/O	Configurable modules for control and alarms.
Analog I/O	Configurable modules for voltage and current sensing, analog control signals.
Local User Interface	Yes
Remote Access	Remote monitoring and control via VPN.
Cloud Interface	Yes. Use our cloud or interface with yours.
Mobile Diagnostics and Alerts	Yes
3 rd Party EMS Support	Yes

Additional Specifications

Supply Power	24VDC
Wall Mountable	Wall-mountable, DIN rail
Environmental	Operating Temperature: -20 °C to +55 °C Humidity: 5-95 % RH, non-condensing IP Rating: IP20

Support

Support	Every controller ships with quick, reliable support. Real people, real answers, right when you need them.
Remote Commissioning	Yes
Remote or Field Upgradable	Yes

* Remote commissioning billed daily; requires connectivity.
* On-site commissioning billed daily + travel/expenses.

* Battery integration typically ~1 week; cost not included; timeline depends on chemistry.
* NRE quoted per project.

Unlock the Full Potential of Your Microgrid



Custom Application Development

With DEP's Power Platform, you can take full control of your microgrid by developing your own application. Create a fully customized Energy Management System (EMS) in Python, enhanced with AI and integrated directly with our controller runtime.



Power your Microgrid with PPL

Discover how the Direct Energy Partners Power Platform can transform your Microgrid operations. Contact us to schedule a demo or learn more.