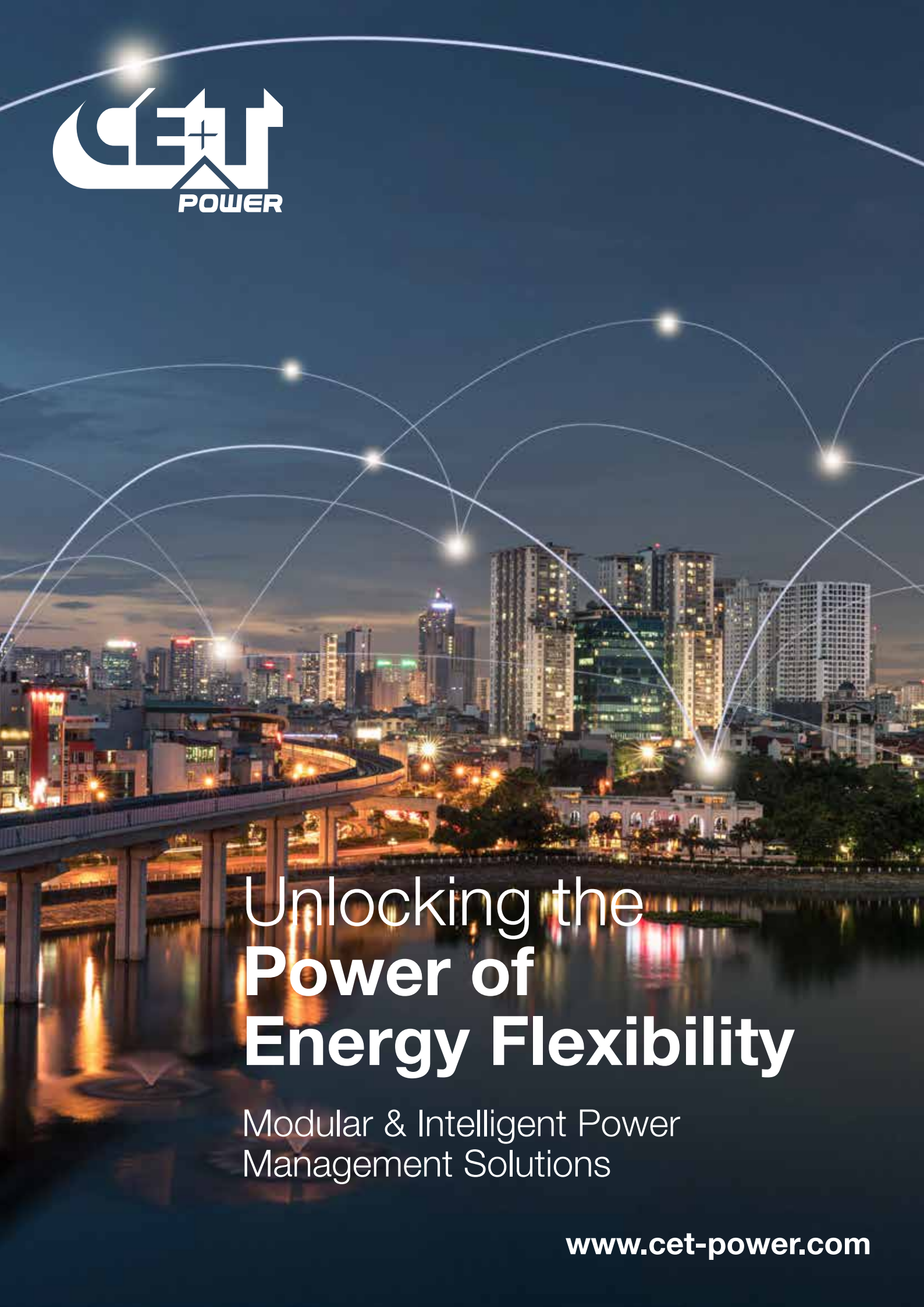


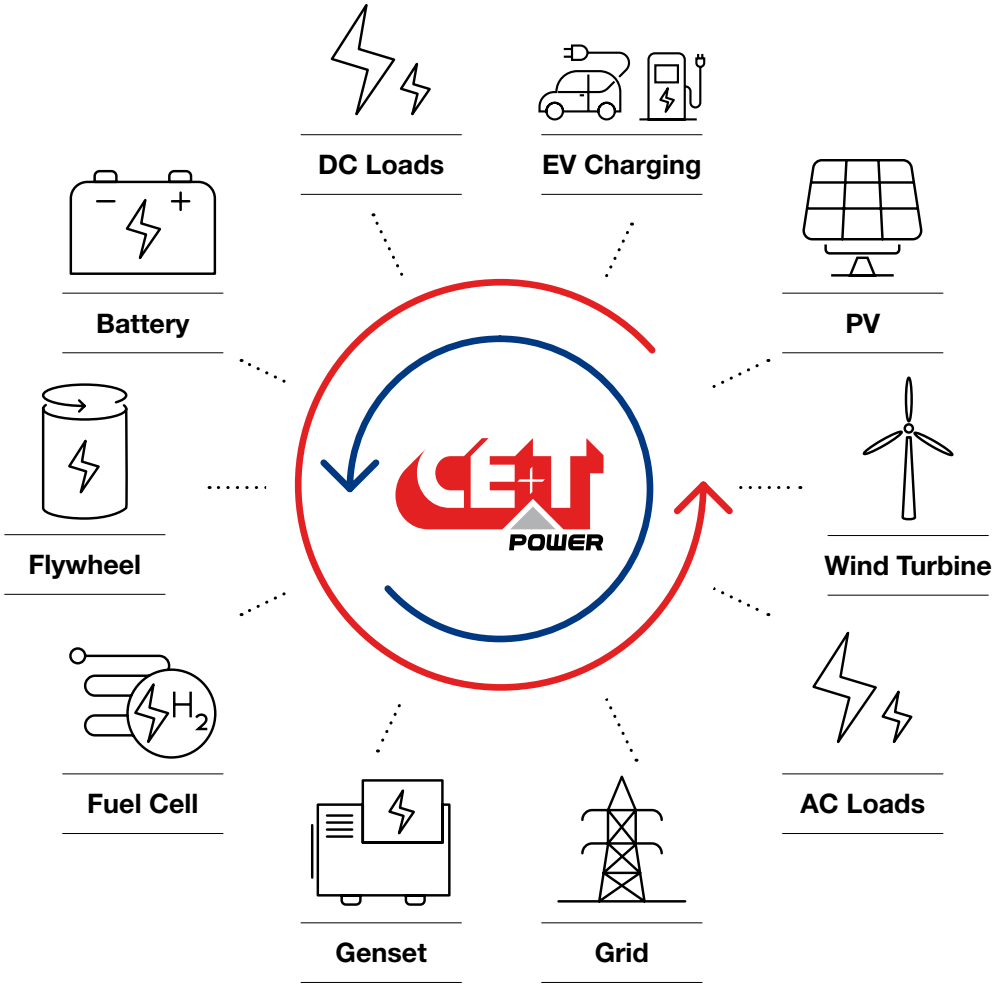
Unlocking the **Power of Energy Flexibility**

Modular & Intelligent Power Management Solutions

www.cet-power.com

Company profile

At CE+T Power, we redefine energy management with our modular and multidirectional power conversion solutions. Our technology allows seamless integration of renewable energy, battery storage, and grid services—empowering businesses to optimize their energy flows and reduce costs.



1934
Year of creation

10%
Of annual revenue reinvested in research and development

350+
Employees worldwide

8
Factories

Europe
Headquartered in Europe, Active worldwide

Our Solutions at a Glance

Power Conversion System

We offer a complete range of power solutions including inverters (DC to AC), UPS (securing AC loads with batteries) and multidirectional converters (inverter, rectifier and UPS all-in-one). Coupled with our state-of-the-art monitoring and control solution, you have a real energy blender to connect multiple sources of energy!

Unlike conventional UPS or Power Conversion System, CE+T's multi-directional power converters allow seamless energy blending from DC and AC sources, reducing infrastructure complexity and cost.

Monitoring & Control

With CE+T's Inview and Inview Mesh, you get real-time energy monitoring, remote site control, and data-driven insights to optimize your infrastructure.»

Inview: local monitoring

Inview is a monitoring and control solution for your entire infrastructure that works with CE+T power converters. This solution collects data from multiple devices, CE+T power converters, batteries (via their BMS) and IoT sensors to create a single power management system (PMS) for customers.

Inview Mesh: multi-sites monitoring

Inview Mesh interconnects multiple Inview, allowing you to centralize, process, and manage data, alarms, and events across all your sites on a single platform for seamless multi-site monitoring.

What's in it for you?

→ Expertise & Innovation
→ Customized Solutions
→ Comprehensive Support

Energy Optimization with Power Management System

In a world of fluctuating energy prices and grid constraints, businesses need more than just backup power. CE+T's Power Management System (PMS) offers intelligent control, dynamic value stacking, and seamless renewable integration to optimize energy costs and maximize resilience.

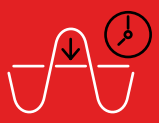
Key features of our PMS

FORCED IMPORT/EXPORT:

This feature efficiently manages the energy exchange between your Battery Energy Storage System (BESS) and the grid. It allows for the import or export of electricity based on pre-set schedules or lower electricity prices, optimizing both efficiency and cost.

Your Advantages

- → Greater control over energy bills
- → Utilize more self-produced energy or purchase energy at the lowest prices
- → Comply with local energy regulations
- → …



PEAK SHAVING:

Peak shaving automatically reduces or smooths your energy consumption during expensive peak demand times by managing average maximum power consumption over short periods of time. high.»

Your Advantages

- → Lower energy bills and cost reduction
- → Reduced strain on infrastructure during high-demand periods
- → Improved grid stability
- → Enhanced energy efficiency
- → Minimized reliance on grid connections
- → …

OFF-GRID/ SELF-CONSUMPTION:

Off-grid / Self-consumption systems, particularly PV-coupled systems, offer high self-sufficiency. These systems primarily use solar production to power loads and recharge batteries, resorting to the AC input only when solar production is insufficient, and battery levels are low.

Your Advantages

- → Reliable PV usage even when grid connection is lost or unstable
- → Reliable power for remote locations
- → Prioritized and optimized use of local energy, boosting efficiency and reducing carbon footprint
- → Decreased dependency on the grid or alternative sources, protecting against energy price fluctuations
- → …

ENERGY ARBITRAGE:

This feature is used to shift energy purchase to cheaper periods, essentially «buying low and using high.»

Your Advantages

- → Power quality management
- → Cost Optimization (cost per kWh)
- → Flexibility and market participation (when integrated with EMS)
- → …

Dynamic Value stacking

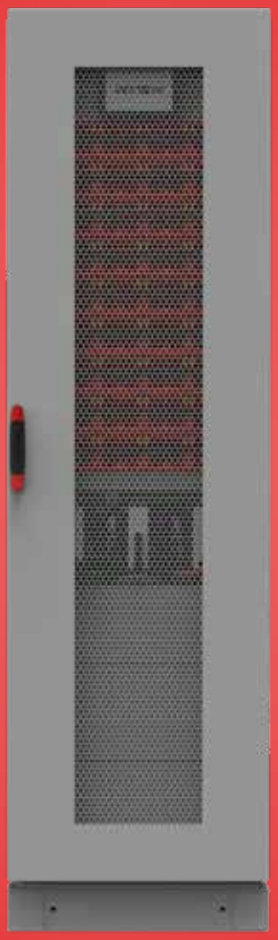
Maximize the value of your energy assets by combining multiple revenue streams—whether it's peak shaving, energy arbitrage, or ancillary services. Our PMS adapts dynamically, ensuring optimal performance in every market condition.

Cost savings: optimize your energy use

→ Load management:
- Peak shaving
- Load shedding
- Power boost

→ Technical configurations
- Solar Integration
  - PV self-consumption
  - AC coupling
  - DC coupling
  - Hybrid coupling (AC+DC)
- Backup solutions
  - AC backup
  - DC backup
  - AC+DC backup
  - Genset integration

→ Power quality management
- Voltage support
- Phase balancing



Revenue streams: turn energy into profit

→ Energy arbitrage

→ Market services
- Flexibility market
- Frequency market
- Ancilliary services

→ Grid support
- Grid voltage support
- Grid frequency support

PMS vs EMS: Complementary Energy Management Systems

A **Power Management System (PMS)** ensures local, real-time control of energy infrastructure, managing devices like batteries, solar panels, and generators with predefined rules. It guarantees reliable operations independently of external inputs.

An **Energy Management System (EMS)** optimizes energy usage across multiple sites by dynamically adjusting to market conditions, enabling advanced functionalities such as energy trading and grid services.

Together, the PMS provides local stability, while the EMS maximizes value at a broader scale, creating a robust and efficient energy ecosystem.

Projects

At CE+T, we understand that energy management is not a one-size-fits-all approach. Our solutions are designed to address the unique challenges of each market, ensuring efficiency, reliability, and sustainability.

Here are some key projects demonstrating our impact.

Rumi Luxury Resort, Australia

Scope: Rumi, a luxury eco-resort, needed a reliable and sustainable off-grid energy solution to operate independently from the power grid.

Solution: Sierra 25 power conversion system combined with Inview monitoring, ensuring seamless integration of solar energy, batteries, and backup generators for optimal performance.

vidéo ▶

Northern Territory Cattle Station, Australia

Scope: A remote site required a reliable power solution to ensure continuous energy availability in an area without grid access.

Solution: Sierra 25 power conversion system with Inview monitoring, integrating solar energy (AC coupling), batteries, and a backup generator.

Application: Sustainable and efficient energy generation, reduction of reliance on fossil fuels, uninterrupted power in remote locations.

Dairy Farm, Australia

Scope: A remote dairy farm faced challenges with an unstable grid and needed a reliable off-grid power solution to maintain operations.

Solution: Sierra 25 power conversion system with Inview monitoring, integrating solar energy, batteries, and a generator to ensure a stable and continuous power supply.

Application: Maximized use of renewable energy and reliance reduction on fossil fuels while ensuring a dependable power source for daily operations.

vidéo ▶

Apollo Technics, Belgium

Scope: A business building needed a reliable off-grid power solution to support electric vehicle (EV) charging with limited access to the power grid.

Solution: Sierra 25 power conversion system with Inview monitoring, integrating solar energy and batteries to deliver a stable and sustainable power supply.

Application: Off-grid EV charging with use of the grid only for power backup.

vidéo ▶

Amersfoort, the Netherlands

Scope: building of the city of Amersfoort aimed to enhance its energy independence by integrating renewable energy sources and optimizing energy management.

Product: Sierra 10 power conversion system with Inview monitoring, enabling efficient integration of solar energy, batteries, and grid interaction for a reliable power supply.

Application: Reducing reliance on the traditional grid while ensuring a stable and efficient power system

Several partners, worldwide

Scope: Construction sites often face power limitations due to grid constraints, requiring a reliable and flexible energy solution to meet high power demands.

Solution: Sierra 25 power conversion system with Inview monitoring, acting as a power booster by integrating batteries and grid power to deliver stable and sufficient energy.

Application: This solution ensures uninterrupted power for construction equipment, reducing reliance on costly grid upgrades, reduce genset use and enabling efficient operations on-site.

SAN Group business park, Austria

Scope: A business park aimed to achieve climate neutrality by integrating renewable energy sources and optimizing energy management.

Solution: CE+T provided the Sierra 10 power conversion system with Inview monitoring, enabling efficient integration of solar energy, battery storage, and grid interaction for a reliable and sustainable power supply.

Application: This solution supports the business park's transition to clean energy, reducing carbon emissions while ensuring a stable and energy-efficient operation.

Boost2Drive, Belgium

Scope: The growing demand for EV charging requires a flexible and efficient energy management solution to optimize power usage and avoid grid constraints.

Solution: A container with Hercules power conversion system and Inview monitoring, which intelligently combines grid power, batteries, and PV panels energy sources.

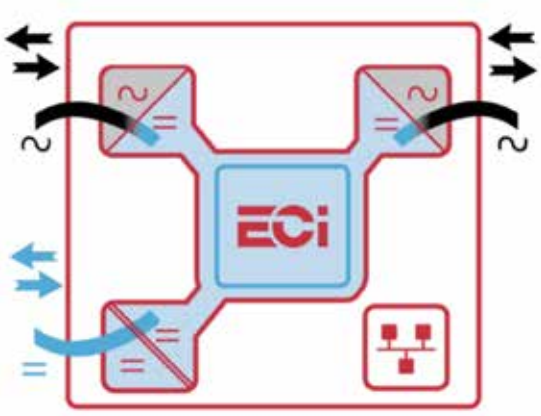
Application: Efficient e-mobility expansion by optimizing energy flows, reducing peak demand, and ensuring reliable charging infrastructure.

Product ranges

Multidirectional Converters – Sierra

The Sierra range offers a future-proof solution that goes beyond traditional UPS systems. Designed to handle both DC and AC loads, Sierra converters offer unmatched flexibility with a single, adjustable product that meets a wide array of power needs.

Each Sierra converter is equipped with three bidirectional ports (two AC and one DC) making it ideal for integrating batteries, renewable energy sources, AC and DC loads, and more into your energy system.



Benefits for Customers:

- **Versatile:** Handles both DC and AC loads, replacing the need for multiple devices.
- **Future-Proof:** Designed to adapt to changing energy requirements, ensuring long-term value.
- **Efficiency:** Continuous operation during outages, ensuring reliability and resilience.
- **Scalable:** A single product meets a broad range of power needs, reducing complexity and costs.

General product information

Scan the QR code for complete technical datasheets

Sierra 10 - 48/230

AC In :	230 Vac
DC In :	48 Vdc
AC Out :	230 Vac
DC Out :	48 Vdc
Power :	1.2 kW
Up to :	38 kW

Sierra 25 - 48/230-277

AC In :	230, 240 & 277 Vac
DC In :	48 Vdc
AC Out :	230, 240 & 277 Vac
DC Out :	48 Vdc
Power :	2.7 kW
Up to :	2 MW

Sierra 25 – 380/230-277

AC In :	230, 240 & 277 Vac
DC In :	380 Vdc
AC Out :	230, 240 & 277 Vac
DC Out :	380 Vdc
Power :	2.7 kW
Up to :	2 MW

Monitoring & Control Hardware – Inview X

Inview X offers an advanced monitoring and controller unit compatible with CE+T power converter systems, allowing easy access to system information through LCD screen display and web interface when coupled with Inview software.

With this advanced monitoring and controller unit at your disposal, you can experience a multitude of benefits, such as effortless system management, comprehensive insights and system configuration.

Benefits for Customers:

- **Comprehensive Overview:** The home screen provides a summary of system power, module status, batteries, and events information.
- **Enhanced Connectivity:** Ethernet ports enable remote communication, web interface access, and connection of accessories facilitating seamless integration and control.
- **Custom Configuration:** The Inview X interface grants you access to configuration and setup files of connected modules, providing greater control and customization options for your power system.

General product information

Inview X

LCD Touch Screen :	7”
Compatibility :	Bravo 10, Bravo 25, Sierra 10, Sierra 25, Sierra XC
Supported Protocols	Modbus RS485, Modbus TCP, SNMP v1, v2C & v3, HTTP/HTTPS

REIMAGINING POWER CONVERSION

CE+T POWER

Notes

Contact us

Let’s keep in touch !

www.cet-power.com