energy manager
SMART SITE MANAGEMENT

-53.6V
voltage
145.8A
load current
7.3A
battery current
68.3A
rectifier current
NO ALARMS

alarms
data logging
reports

energy manager

Ensure your strategic assets deliver real business benefits with the next generation energy manager.

The Next Generation Energy Manager reduces operational challenges, redefining power and site management. This smart energy management system intuitively and effectively controls and optimises the flow and storage of energy on communication sites.

Converts diverse site components into an effective unified system to guarantee your strategic assets deliver real business benefits through accelerating ROIs, a lower TCO and maximising site uptimes.

Includes unique patented energy management features such as Dynamic Generator Optimisation, Dynamic Phase Balancing, PowerSave and PowerShare functions, which maximise conversion efficiencies and site equipment performance.

Intelligently blends and prioritises renewable inputs with learning and self-healing logic. Provides accurate real-time reporting, lifetime data logging, remote site management and diagnostics. Gain greater access, control and visibility of aggregated actual and historical trend data, asset management, events, alerts, maintenance timers and alarms logs.

Tenant control and load demand management to measure, group and control independent loads. Remotely reboot site equipment for recovery and truck-roll avoidance.

Offers an extensive range of connectivity with communication and peripheral management options including Ethernet, GSM/GPRS modem, Wi-Fi, CAN, Modbus, Bluetooth and Zigbee.

Battery management includes symmetry and individual block voltages, temperatures and current measurements. A lithium BMS option uniquely allows cells to be balanced without fully charging.

KEY FEATURES

- **Optimised interoperability**

- **Innovative, unique and patented features**

- **Large 4.3" colour LCD with touch interface**

- **Real-time reporting and lifetime data logging**

- **Remote site management, reporting, control, updates, and auditing**

- **Battery condition and lifecycle monitoring**

- **Tenant control and load demand management**

- **Billing/metering grade**

- **Manage energy load peaks and shifts**

- **Asset, access and security management**

- **Embedded mapping (based on LatLng)**

- **Core LUA engine for custom scripting**

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Optimised for mobile devices.

Communications Interfaces

Physical: Ethernet (10/100BaseTX), 2x USB 2.0, CAN, SBI, RS232*, RS485*, Bluetooth*, Zigbee*, 2G/3G/4G connectivity, Wifi on optional USB dongle

Protocols: http, https, Modbus, SMTP (email)

Management Software: Embedded web server for local/remote configuring and reporting. SNMP Version V1, V2c or V3. Supports NMS' such as HP OpenView, Netboss, Netcool, SNMPc, SitePortal, MaxView etc.

User Interface

- 4.3" colour touch screen LCD with backlight
- Multi-lingual
- Up to 16 push buttons on customisable membrane
- Up to 9 LEDs on customisable membrane
- High quality audio speaker with line out support
- Buzzer (mappable)

I/O Expansion (Scale as required)

- 12x general purpose inputs supporting 0-150V analogue or digital signals.
- General purpose inputs 1 and 2 support high speed digital signals.
- 6x voltage-free relay outputs
- 2x LM335 temperature inputs
- 1x on board temperature sensor
- 2x current shunt inputs
- Low Voltage Disconnect (LVD) driver supporting 3x LVDs
- Built-in VBus measurement

Other

- SD card storage (up to 64GB)
- Commissioning wizard and digital manifest
- Records AC abnormalities (surges)
- Remote over the air firmware updates
- PLC type functions and LUA scripting

Operation

- Start-up voltage: 16V
- Nominal input voltage range: 20 – 75V
- Maximum input power: 12W
- Operating ambient temperature range: -20°C - 70°C

Options

- I/O expansion card
- Battery Condition Module
- BMS lossless balancer (for lithium batteries)
- AC Measurement Module
- Generator Management Module
- Load Management Module
- Interface Cards*

Compliances

Safety: EN60950

Other: CE and RoHS compliant

Contact Enatel for datasheets. Due to product development specifications are subject to change without prior notice. Pictures may be representative; actual products may differ.

CE RoHS

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