

Energy Manager

Technical Datsheet

The Energy Manager gives telecom operators access to multiple solutions designed to reduce cost of ownership and environmental impact of their sites while increasing reliability.

From generator hybridization to clean power sites including solar and wind power, the Energy Manager controls and manages all system components and monitors energy demands, alarms and climate readings. For efficient network operation, all data of equipped power sites can be made available to a NOC.

Its flexibility and expandability allow the Energy Manager to grow with the operator's needs. Monitoring features like surveillance cameras or new energy components, such as solar panels, can be integrated whenever required.

Benefits

- » Reduction of site OPEX of up to 70% through:
 - Reduced diesel consumption
 - Longer generator & battery lifetime
 - Reduced servicing & travelling
 - Preventive maintenance
 - Theft prevention of diesel and equipment
- » Increased reliability and availability of site
- » Reduced CO₂ emissions
- » Full site transparency

Features

- » Suitable for grid and off-grid setups
- » Easy integration of existing equipment
- » Modular system architecture allows for scalability
- » Sophisticated energy management architecture
- » Advanced battery management capabilities



Applications

Hybridization

- » Control & management of all system components
- » Cost & load profile optimized energy generation
- » Advanced energy management
- » Increased battery and generator lifetime

Monitoring

- » Monitoring of all site parameters
- » Central monitoring from NOC
- » SMS alarm for service staff
- » Customized reporting
- » Lower maintenance efforts



Energy Manager

Specifications	
Physical Dimensions	
Energy Manager	Height 3 HU, Depth 19" H 132 x D 483 x W 305 mm incl. handhold Depth without handhold: 282 mm
Installation Depth	280 mm + Wiring
Weight	~ 5,9 kg (with battery ~ 7,2 kg)
Electrical	
Supply Voltage	-36 to -72 VDC or 19 to 36 VDC internal 100 to 240 VAC 50-60 Hz external (optional)
Power Consumption	< 30 W
Operational Temperature	0 to 50°C
Relative Humidity	10 to 90% (non condensing)
Storage Conditions	-20 to +85°C, 0 to 95% relative humidity
Standards	
EMC (CE)	N 61000-6-1 & 6-3
Protection Grade	EN 60529 (IP20)
Connection Ports	
Alarm Outputs / Dry Contacts	16 Relay change-over contacts, max. 0,5A / 230V
Analog Input	20 configurable 0-20 mA / 0-5, 0-10, 0-30 VDC 4 -100-0 VDC 8 Pt 1000
Digital Input	12 electrically isolated low level: 0-2V, high level: 4-35V
Analog output	2 ports 0-10 VDC

Communication Interfaces / Remote Monitoring	
Wireless	GPRS Quad band CS1-CS4, CSD 9.6k; SMS
Ethernet	RJ 45 10/100 BaseT front
Serial	1x RS 232 front, 1x RS 485 rear (optional)
USB	4x USB 2.0 front
Onsite Monitoring & Control	
Control Panel	5 way keypad & 4-line LCD- display configuration and monitoring
Ethernet Interface	Advanced configuration, monitoring
LED	Status / Error indication
Customizable Data Logging	Lifetime log (10 years) for sensor data, events, and alarms



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