

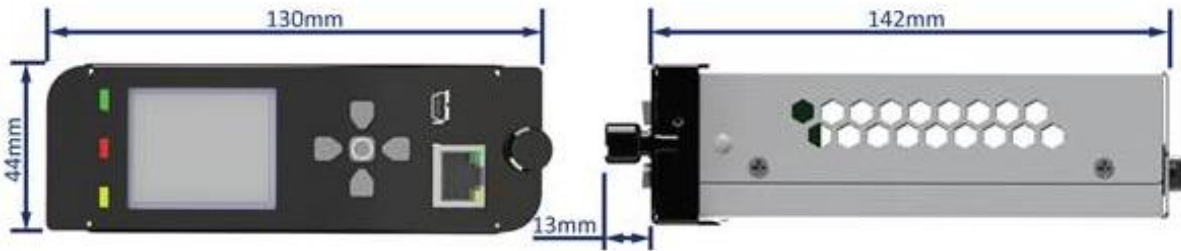
Technical Specifications (M1000 Controller)

Control Features	
Battery & System Voltage Measurements	Load / Battery Disconnect Control
Battery & Load Current Measurements	Alarm Grouping for Relay Outputs
Battery Fuse & Mid Cell Monitoring	User Settable Alarm Names for Auxiliary Inputs
Energy Calculations	
Battery Functions	
Battery Charge Profile Control	Battery Charge Current Limiting
Battery Current Measurement	Multiple Battery Support
Battery Temperature Measurement	Battery Boost Charging (Auto / Manual)
Battery Temperature Compensation	Battery Periodic Testing (Voltage / Time Set)
Battery Capacity Indication	
Rectifiers	
Supports Horizon (1.4KW, 2.7KW) / Quantum (3.0KW) and Centrix (5.6KW) series Rectifiers	Rectifier Efficiency Mode
Rectifier Input Voltage	Rectifier Information like Serial No. & S/W Versions
Rectifier Current Measurements	Alarm & Internal Temperature Monitoring
Rectifier Current Sharing	
Alarms / Event Monitoring	
Assigning severity of alarms (Critical / Major / Minor / Info)	Rectifier High Temperature
Logging of all alarms with Date and Time Stamp	Rectifier Current Share
Battery Voltage Low / High	Battery Test
Battery Temperature Low / High	AC Mains Low / High
Battery Fuse	Slave Device Communication
Rectifier Failure	External Inputs
Rectifier Current Limit	
General Data	
Voltage	20V — 70V
Power Consumption	10W (Max)
Dimensions	130mm x 145 mm x 43 mm (WxDxH)
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-20°C to +60°C
Analog Monitoring with External DC Interface Unit	
Voltage Channels	6 Channels (Max)
Current Channels	7 Channels (Max)
Current Sensors Supported	Hall Effect Sensors/ Shunt
Temperature Channels	3 Channels, -25°C to +100°C
Humidity Sensor (Optional)	2
Auxiliary Inputs & Outputs	
Standard	2 Isolated Inputs & 2 Potential Free Outputs
With Additional Units	Upto 64 Isolated Inputs & Potential Free outputs
External Alarm Monitoring	External Inputs can be mapped as Alarms/ functions. Event Names are User Settable. Can be used for SNMP Traps
System Interfaces	
System Control Bus	CAN V2.0b, 2 numbers, on RJ45 for communication with SMR and system units
Serial Bus	2 x RS485 on RJ45 1 x RS232 on D-Sub 9
Interfaces	Serial Protocols (Modbus RTU), Modem interface for remote monitoring over GPRS/SMS using external GSM Modem

Technical Specifications (M1000 Controller)

System Configuration	
Battery/Load LVD Control	Up to 5
Battery Fuse Monitoring	Auxiliary Inputs, Voltage Sensing
Support for Li-ion Battery	Settable charge profiles and communication with battery BMS
Battery Testing	Automatic Battery Monitoring and Periodic Test
User Interfaces	
Display	65K Colour TFT, 1.8" / 5 key Control
Ethernet	10/ 100 MBPS BASE-T Auto MDI/ MDI-X
SNMP	V1, V2c
Networking	HTTP, FTP, SNIP, DHCP (client), IPv4 & IPv6
USB	USB 2.0
Storage	
Event Storage	Up to 10,000 events with time stamp
Parameter Logging	Up to 10,000 user selectable (10 parameters) with Time Stamp
Energy & Run Hours	Daily Logs for last 60 days
Change Logs	Configuration setting changes with Time Stamp
Access	All logs can be downloaded from HTTP interface

M1000 Mechanical Dimensions



Alarm Indications

Item	Description
Green (1)	System OK
Amber (1)	Minor, Major and Critical Alarm
Red (2)	Major Alarm
Red (3)	Critical Alarm

Connector Details

Item	Description
1	RS485 Communication Port
2	Power Port / CAN Comm Port
3	Power Port / CAN Comm Port (Optional)
4	RS485 Comm Port (Optional)
5	RS232 Communication Port

