

# M1000-X Controller



Exicom's M1000-X controller platform covers all control and monitoring needs of small to large sized DC power systems with amazingly simple and easy user interface. Whether it is remote monitoring capabilities, or integrated functions to do energy management via control of site infrastructure or support for advance battery types; M1000 is on the most advanced controllers available in market today

## Key Features:

- High resolution colour display and easy to use navigation
- Ethernet for local or remote monitoring via web browser and optional modem
- Site automation and renewable hybrid support
- Li-ion battery support and advanced battery management & testing methods
- User configurable performance logging, event logging and energy logging
- USB interface for configuration file update and log download

## Applications:

- Telecom: Base station sites, LTE/WiMax, hub sites, renewable hybrid sites, and central offices
- Smart Cities: Smart poles, surveillance etc.
- Power Utilities: Control and protection and communication equipment
- Railways: Signalling, communication equipment and control & protection

# M1000-X Controller - Technical Specifications



INPUT DATA	
Voltage (Nominal)	20 – 72VDC
Voltage (Nominal)	5W max
GENERAL	
Dimensions (HxWxD)	110 x 43 x 145 mm
Operating environment Range	Temp: -20°C to +60°C; Humidity: 95%RH, Non-condensing
Safety & EMC	EN 60950 / EN 61000-6-1/-2/-3/-4
SYSTEM FUNCTIONS	
Battery	Float, boost and equalise charge mode, configurable battery temperature compensation, manual charge mode
	Low voltage disconnect and under voltage pre-warning
	Back up time and SoC monitoring
	Automatic battery health test, battery isolation for maintenance symmetry supervision
	Symmetry supervision
System	Li-ion battery support, settable charge profiles and communications with battery BMS
	AC voltage measurement, mains /phase failure detect
	Integrated support for renewable (solar) hybrid system
	Site automation control, DG control and monitoring
	Alarm grouping, alarm output mapping and alarm naming
Rectifier	User profile configuration & password protection
	Application and configuration update locally or remotely
	Individual rectifier current, temperature and status monitoring
	Power limited walk in, configurable power control in case of controller communication loss
	Linear or cyclic rectifier sleep mode for system efficiency
	Active current sharing and system overload monitoring
SYSTEM CONNECTIONS	
Voltage Sensing	6 Channels, +/- 72Vdc
Current Sensing	7 Channels, Shunt, 0 – 50mV, 0 – 75mV
Temperature & Humidity Sensing	Up to 3 Channels, -25°C to +100°C, 1 channel for humidity
Battery / Load LVD Control	Up to 5
Battery Fuse Monitoring	Auxiliary inputs, voltage sensing
Battery Block Monitoring	Available
DIGITAL INTERFACE	
External Alarm Monitoring	Up to 40 Opto isolated inputs
Potential Free Outputs	Up to 40, 1A / 24V, Form C
Function Mapping	Potential Free Outputs can be mapped to Alarms / Groups
LOGS	
Event Logs	Up to 10,000 events
Parameter Logs	Configurable parameter logging on SD card
Energy & Run hour Logs	Daily Grid, DG, Battery Energy & run hour logs (60 days max)
Change Logs	1,000 setting change logs
SYSTEM INTERFACES	
System Control Bus	2 x CAN V2.0b for communication with SMR and system units
Serial Bus	2 x RS 485, 1x RS232; Serial Protocols: modbus RTU, modem interface for remote monitoring over GPRS/FMS
Event Logs	Up to 10,000 events
USER INTERFACES	
Display	65k colour TFT, 5 keys
Ethernet	10/100 Base – T, MDI / MDI-X, IP Protocols: HTTP, SNMP V2c/V3, SNTp, FTP, DHCP, IPV4 / IPV6
USB	USB 2.0, Device & Host Modes

Specifications are subject to change without notice

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