



The Leader in Automated Test, Data Acquisition and Control Systems



EnergyMAX™

APPLICATIONS

- On board control and monitoring for energy storage systems
- Energy storage system installation verification
- Asset and machine monitoring
- Smart grid component control and monitoring
- Power quality analysis

Advanced power monitoring and control

EnergyMAX™ is a real-time power monitoring system ideally suited for AC and DC subsystem applications. The EnergyMAX™ power monitoring system applies IEC 61000-4-30 standards for power quality measurements, and offers advanced analytic capabilities including voltage harmonics, dips, swells, and unbalanced phases. EnergyMAX™ provides easy integration of additional I/O such as DNP3 and Modbus communications, digital I/O, or temperature and vibration sensors to complete a full monitoring system.

FEATURES

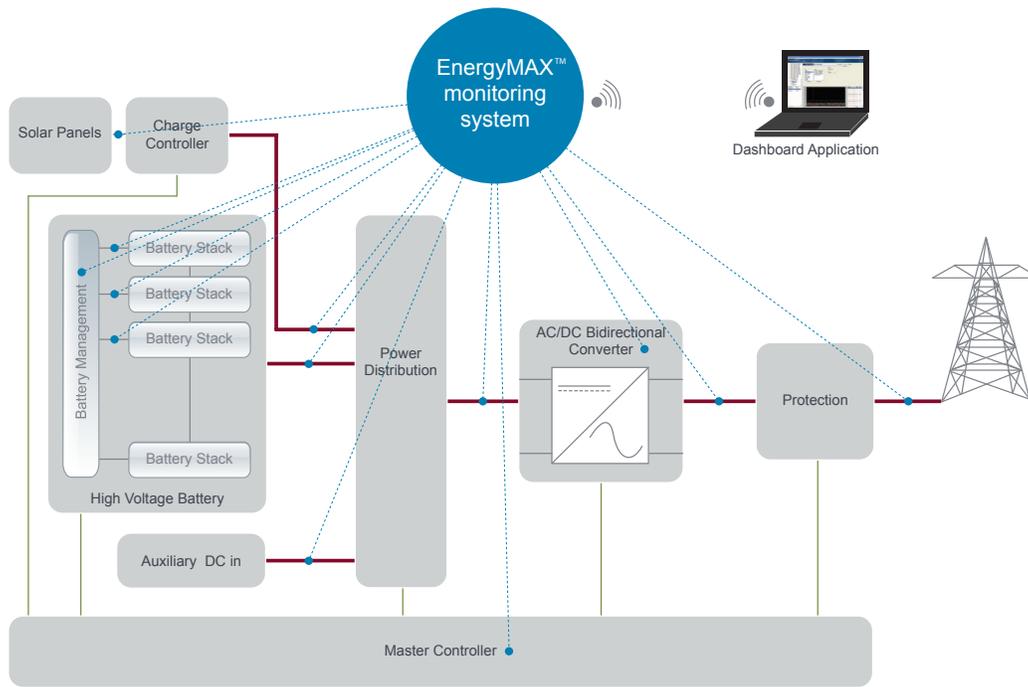
- Portable and permanent installations
- Single and three-phase AC power monitoring
- High voltage DC circuit monitoring
- Custom voltage and current measurement ranges
- 20kS/s/ch simultaneous waveform acquisition
- Options for control I/O, communications, and memory

Trying to qualify your energy storage system?

Inquire about Bloomy's ESS Performance Test System.

APPLICATION DIAGRAM

The wide range of configurable measurement capabilities makes EnergyMAX™ a standard system for smart grid and energy storage monitoring. The following example shows EnergyMAX™ connected to a solar panel energy storage application.



HARDWARE SPECIFICATIONS

EnergyMAX™ can be customized to accommodate specific requirements.

AC VOLTAGE	
3-Phase Connection	Delta or Wye
Channel Sets	2
Voltage Range	400 Vrms L-N, 800 Vrms L-L
Overvoltage Withstand	1000 Vrms for 1 sec
Surge Withstand	5 kV for 100µS
Accuracy	0.05% reading + 0.012% range
AC CURRENT	
3-Phase Connection	Delta or Wye
Channel Sets	2
CT Type	Rogowski Coils
Current Range	250 - 5000 Arms
Linear Accuracy	±1%
Phase Angle	<0.5°
Bandwidth	14.5 kHz
Isolation	5 kV

DC VOLTAGE	
Channels	2 differential
Voltage Range	0 - 1000V
Accuracy	±5%
Bandwidth	DC to 25 kHz
Surge Withstand	5 kV
DC CURRENT	
Channels	2 differential
CT Type	Open loop hall effect
Current Range	200 - 2000 Arms
Accuracy	±1%
Bandwidth	DC to 6 kHz
Isolation	5 kV
TEMPERATURE	
Channels	16
Thermocouple Types	J, K, T types
Accuracy	±0.5°C

COMMUNICATION	
Supported Protocols	Modbus, DNP 3.0, IEC 61850
SYNCHRONIZATION	
Supported	GPS, IEEE-1588, NI-Sync

Call 508-281-8288 or visit
www.bloomy.com