Reliable Power

ACMi1000HD

System Controller



ACMi1000HD

Control of stand-alone power systems based on switch mode rectifiers



Key Features

- Integrated backlit display with 5-axis joystick
- Digital interface (CAN bus) architecture for increased functionality, flexibility and reliability
- Modular design with powerful expansion capabilities
- True plug and play
- Automatic download of configuration from the system
- Pre-loaded configuration file
- Remote monitoring with optional modem or LAN (TCP/IP gateway, SNMP, email, Web,...)
- Individual control for up to 32 rectifiers, expandable up to 64 rectifiers
- Comprehensive system control functions
- Comprehensive Battery management
- Control for up to three low voltage disconnects (LVDs)
- Access security through multi-level password protection
- Local firmware upgrades
- Remote download for different language support
- Data logging of event history

Description

The ACMi1000HD is a hot-pluggable, modular, flexible power system controller for DC power systems; from small systems up to very large and complex systems.

The ACMi1000HD provides full control of a wide array of system parameters; voltage, load current, system capacity, protection status, battery information and alarms. The controller has local monitoring through a USB port and offers remote monitoring options via Ethernet (over TCP/IP, Internet) or via modem (GSM or PSTN).

The controller is supplied factory pre-configured, ready for use. It can be re-configured using Wini1000 configuration software, either on-site via the front panel USB port, or remotely.

Applications:

Small to large DC power systems Decentralized DC power plants



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Specification

DC Input		
Voltage Range	19V to 60V DC	
Power consumption	< 2W	
Protection	Internal fuse	
Input/Output		
Analogue Inputs	6	
Digital Inputs	16 (up to 12, user configurable)	
Relay Outputs (volt-free contacts)	Up to 6 configurable, form 'C' contacts Relays fitted on interface PCB	
Expansion	Optional – I/O expansion	
Communications		
Internal	CAN bus	
External		
Front face	USB port, type B	
Internal interface	For LAN/Modem options	
Software	WINi1000 (Windows-based)	
Modems (optional)	GSM/PSTN	
SMS Messaging	System status and alarm messages. Requires external GSM modem	
NCS (Network communications server)	Ethernet LAN connection (TCP/IP, SNMP and HTTP protocols)	
MMI (Man Machine Interface)		
Display	128x128 pixel LCD, back-lit with automatic dimming	
Joystick	5 axis, tactile	
Mounting orientation	Auto image & axis correction for horizontal/vertical mounting	
LEDs		
Green	Power On, System OK (= no faults or alarms)	
Red, blinking	System Warning (= Minor Alarm)	
Red	System Alarm (= Major Alarm)	
ECOPX		
Energy Saving		
LVD	Drive for 'Zero-power' contactors	
Rectifier sleep mode	Algorithm to turn off excess power Rectifier rotation for enhanced reliability	

Specification

FUNCTIONS		ALARMS	
System		System	
	Output voltage measurement		Mains failure
	Load current measurement		Digital inputs
	Load/Battery disconnect		Load disconnect (LVD)
	Alarm level setting (major/minor)		Load circuit breaker
	Alarm log (up to 512 events)		Load current
	Real time clock (battery backed)	Battery	
Battery			Low battery voltage
	Current measurement (x2)		High battery voltage
	Temperature measurement (x2)		Low battery temperature
	Temperature probe protection		High battery temperature
	Battery presence and cell failure detection test		Battery temperature probe fault
	Battery capacity (Ah)		Battery disconnect (LVBD)
	Battery life indication		Battery breaker / fuse detection (up to 4)
	Automatic battery current limit adjust		Battery discharge current
	Temperature compensated charging		Battery capacity (Ah)
	Boost charging		Battery life
Rectifiers		Rectifiers	
	Individual rectifier information		Rectifier failure
	Individual rectifier control		Critical rectifier failure (>1)
	Individual rectifier on standby		Rectifier current limit
	Sequential start up (walk-in)		Rectifier over voltage protection
	ECOpx Efficiency mode		Rectifier over temperature protection
	Load sharing (without controller)		Rectifier fan failure
	Current limit adjustment		Rectifier current sharing error
	Over voltage adjustment	Programmability	
	Missing rectifier detection		Alarms programmable for;
	Rectifier fan performance		Severity (major, minor, informative)
			and miestolus (delay, logic, lateried)

Specification

Mechanical		
Dimensions (H xW x D), mm	44(1U) x 88(2U) x 180	
Weight	< 0.5kg	
Mechanical		
Cooling	Natural convection	
Ambient Temperature	-25°C to +70°C -40°C to +75°C	Full performance (excluding LCD display) Safe operation
Storage Temperature	-50°C to +85°C	
Humidity	5% to 95%	Non-condensing
RoHS	2002/95/EC	
WEEE	2002/96/EC, 2003/108/EC	

Services

With over 60 years of expertise in power systems and solutions, AEG Power Solutions is renowned for its unparalleled services and technical support in critical application environments. As the world class system provider, you can rely on a global network of 20 Service Centers supported by over 150 field engineers and more than 100 certified service partners around the world. From the power solution selection to your process installation and commissioning, our certified experts go beyond your expectations by offering service excellence that will ensure the lowest operational cost for your missioncritical equipment. The reliability of your installed power solutions is supported by a Global Service Team renowned for its short response time and trouble shooting efficiency. Choosing one of the Pro Care[™] Preventive Maintenance Options gives you the ultimate peace of mind reassuring complete cost control, security and uninterrupted power supply in utmost critical situations.

You can also benefit from a full range of professional services that will protect and ensure the durability of your investment and will take over when you need it the most.

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- Turnkey solutions
- Installation and commissioning
- Maintenance services
- E-Service/remote monitoring
- 24/7 hotline
- Onsite training
- Hot swapping
- Onsite battery replacement
- Battery monitoring
- Facility and equipment management
- 24/7 global onsite contracts
- Power quality assessment
- Load bank & site capacity analysis
- Trouble shooting and repair

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