



## Features

- User-selectable alarm parameters
- Password controlled environment
- USB or RS232\* Interface and Form "C" dry alarm contacts
- Programmable alarm routing, logic unit and analog inputs
- Ethernet interface + web server support
- 1000-event alarm log
- Audible Alarm
- Remote firmware upgrade

### Intelligent site management:

- Battery tests and log
- Battery voltage and symmetry monitoring
- Remaining battery capacity measurement
- Low voltage disconnect
- Temperature compensation with programmable compensation factor
- Monthly data logging
- Site log tools

## Description

The Power-One Advance Controller Card (ACC) is a pluggable microprocessor controller that provides monitoring and control for a broad range of Power-One DC Power Systems. The ACC monitors all system parameters including: DC voltage, rectifier current, rectifier temperature, system capacity, battery parameters, and circuit breaker status.

Alarm and warning notifications are indicated by front panel LEDs, and through potential free alarm contacts that allow remote signaling. External monitoring of alarms is accomplished through a USB or RS232 port\* using PC-based PowCom™ software. The ACC has an Ethernet port allowing control over a TCP/IP network and web based support. Alarms can be mapped via SNMP traps to customer OSS platforms such as HP Openview™

To meet individual site requirements, the ACC contains a Programmable Logic Unit that can be used to monitor and control specified requirements. This allows individual alarm routing and logic operations to be set as actions, alarms to be triggered, and outputs to be activated based on internal and external signal monitoring, comparing, and processing.

## Input

<b>Voltage</b>	18-60 VDC
<b>Current</b>	<200 mA

## Interface

<b>Display</b>	Optional 3x16 character LCD
<b>Internal Communication</b>	RS485 Data Bus (64 modules max.)
<b>External Communication</b>	USB or RS232* interface for remote control via modem or directly from a PC with PowCom™ software. Ethernet port allowing monitoring and control over a TCP/IP network. Web browser support + SNMP.
<b>Indications</b>	Green LED - Power ON Yellow LED - System warning Red LED - System alarm
<b>Signal Input</b>	Battery current reading (via shunt) Output voltage reading Analog inputs for battery symmetry reading or general use Battery temperature sensor Load fuse failure Battery fuse failure 2 x Digital inputs
<b>Signal Outputs</b>	LVD/PLD disconnect (max 4*) LVD/PLD reconnect 2 x Digital outputs
<b>Software</b>	Site upgradeable by Flash memory

## Alarms

<b>Alarm Contacts</b>	4 (max 10*) potential free change-over alarm contacts
<b>Alarms</b>	Low/High Voltage Alarms Batteries on Discharge Overvoltage Shutdown Alarm High Load (Rectifier Capacity Alarm) Battery Test Failure Battery Symmetry Alarm Mains Failure Module Alarm Urgent Module Alarm Battery Fuse Failure Load Breaker Failure Battery/Load Disconnect Alarm High/Low Battery Temperature Alarms Temperature Probe Failure High/Low AC Voltage** 16 x Additional User Definable Alarms

## Other Technical Data

<b>Dimensions (WxHxD)</b>	Actual dimensions vary with respect to the system used. Contact Sales.	
<b>Weight</b>	0.2kg (0.44 lb)	
<b>Operating Temp.</b>	-40 to +70 °C	
<b>Storage Temp.</b>	-40 to +85 °C	
<b>Safety</b>	IEC 60950, EN60950, UL60950	
<b>EMC</b>	EN 61000-6-2, EN 61000-6-3, EN 300 386-2	
<b>Environment</b>	Storage:	ETS 300 019-2-1
	Transport:	ETS 300 019-2-2
	Operation:	ETS 300 019-2-3

## Battery Management

<b>Battery Disconnection</b>	Allows voltage controlled disconnection of batteries.
<b>Boost Charging</b>	Manual time controlled or automatic boost charging with adjustable time and voltage levels.
<b>Battery Tests</b>	Automatic or manual testing of batteries up to six times per year with a 10 test memory. Variables include test duration and end voltage.  Battery discontinuance test to ensure battery connection.
<b>Enhanced Battery Monitoring</b>	Monthly logging of essential battery parameters including temperature, temperature hours, current, charging voltage and symmetry voltage, Data logged for 5 years.
<b>Site Logs</b>	System tools developed to assist site management. Daily peak load and statistic logs available.
<b>Symmetry Measurement</b>	Optional tool that measures batteries for early detection of thermal runaway.
<b>Temperature Compensation Charging</b>	Allows continuous adjustment of output voltage according to battery temperature. Features include adjustable compensation factor and separate thresholds for high temperature alarms.
<b>Load Shedding (PLD)</b>	Optional feature that allows voltage or time controlled disconnection of non-essential load.

\* Pending system configuration

\*\* Pending rectifier used

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