

Energy monitoring function of the front shelf unit



Overview

The Power Shelf Controller is a hot-swappable module that monitors the Power Supply Unit (PSU) or Battery Backup Unit (BBU) and provides parametric information to the Site Management Controller (SMC). Communicating via a 10/100/1000MB Base-T Ethernet port connected directly to the rack switch, the PMC aggregates communications with the. The Power Shelf Controller (PSC) is an integral part of the Lite-On DC UPS system. A fully-configured DC UPS system consists of a power shelf connected to a Backup Battery System (BBS) for uninterruptible power backup protection. Converting incoming supply voltage into a 50 VDC output with a total power capability of 18 kW. It accommodates 6x3 kW hot-swappable single phase PSU modules. Power Shelf input(s) are universal 7. 10U OCP Power Management Controller (PMC) ELECTRICAL SPECIFICATIONS System on Module (SOM) Core All Artesyn current generation shelf and power management controllers utilize a shared SOM that fits onto a customer carrier. OCP strives to achieve completely open platforms, inclusive of all programmable devices, firmware, software, and all mechanical and electrical design elements. These units support to monitor consumption energy precisely, which is necessary for reducing energy cost. By combining with Split-type current sensor, you can easily fix in equipments which you want to measure.



Article Content

May 12, 2026

Power Shelf Controller – Lite-On Cloud Infrastructure Platform

Based on the data, the SMC, or other monitoring software, can control the PSU or BBU. Whether using a user provided proprietary

May 04, 2026

Energy Measuring Units/Lineup Top Energy Saving Supporting

Easy and flexible expansion of measuring points with additional units. With simple data collection, report creating and leakage

Jan 20, 2026

Shelf Management: A deep learning-based system for shelf visual ...

This facilitates the assessment of planogram compliance. Accurate product localization within shelves requires the

Jan 21, 2026

The basics of power monitoring and energy management

Voltage and Current Values An accurate measurement of voltage supplied by the utility and the current produced by

Feb 05, 2026

Towards Intelligent Retail: Automated On-Shelf ...

Efficient management of on-shelf availability and inventory is a key issue to achieve customer satisfaction and reduce

Jun 08, 2026

Stock Portfolio Management & Tracker

Track your personal stock portfolios and watch lists, and automatically determine your day gain and total gain at Yahoo Finance

Jun 26, 2026

Advanced Energy ARTESYN Power Management Controller Manual

View and Download Advanced Energy ARTESYN Power Management Controller manual online. For 10U OCP Power Supply Units.

Aug 04, 2025

ARTESYN 50 V, 18 KW, 10U OPEN RACK POWER SHELVES

It includes a hot-pluggable Shelf Controller for monitoring and control over Ethernet (DMTF Redfish® compatible) management

Apr 22, 2026

Prospects of Appliance-Level Load Monitoring in Off-the-Shelf Energy ...

Besides automated e-monitoring, the use of different off-The-shelf e-monitors can also help to demonstrate state-of

Jul 16, 2026

ORv3 PMC | Advanced Energy

Advanced Energy's Artesyn ORv3 Power Management Controller (PMC) is a hot-pluggable controller that facilitates monitoring and

Apr 28, 2026

Open Rack V3 Power Shelf Universal Input Connector

Each BBU Shelf shall include a monitoring module (PMI/PMC) to monitor and control various BBU parameters. The monitoring

Jun 01, 2026

Research on Front Platform Technology of New Energy Monitoring

Front communication platform is one of the important components of the new energy monitoring system, and determines the three

Sep 09, 2025

Shelf operation of an OCP ORV3 smart battery backup unit

These shelves, with a precise design focused on housing and organizing backup batteries, emerge as key sentinels,

Mar 22, 2026

Smart Battery Backup for Uninterrupted Energy Part 4: BBU Shelf ...

These shelves, with a precise design focused on housing and organizing backup batteries, emerge as key sentinels, assuring the

Nov 07, 2025

LV 14 · 11/2019

General range of functions: – Facilitates the parameterization of the devices – Saving and printing of device settings – Monitoring,

Jul 20, 2026

Telecommunication Energy Shelf System HRB004-001G

The supervisory unit CSM6, it monitors and controls the operating parameters of the entire system as well as featuring the battery

Jan 18, 2026

What is Energy Monitoring System ?

This is a complete tutorial about Energy monitoring system in industries using Energy Meters, PLC, and SCADA.

Oct 19, 2025

Energy Monitoring in Maintenance: What Matters

Energy waste hides in misaligned, worn, and leaking assets. Learn what to monitor, how to trend it, and

Jun 26, 2026

Prospects of Appliance-Level Load Monitoring in Off-the-Shelf Energy ...

Off-the-shelf energy monitors (e-monitors) can provide consumers with an insight into such potential benefits. As e-monitors are

Oct 13, 2025

Prospects of Appliance-Level Load Monitoring in Off-the-Shelf Energy ...

The smart grid initiative has encouraged utility companies worldwide to roll-out new and smarter versions of energy

Aug 28, 2025

News Center

It includes Delta's new 3kW power supply units (PSU), which boast over 97.5% peak efficiency, and can integrate the

Feb 13, 2026

BMV-700 series: Precision Battery Monitoring

Midpoint voltage monitoring (BMV-702 only) This feature, which is often used in industry to monitor large and expensive battery

Jul 12, 2026

SARS Home | South African Revenue Service

SARS collects taxes & customs. File returns, check balances & find branches. We build a compliant &

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.greatpremiersolutions.co.za>

Email: sales@greatpremiersolutions.co.za

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

