

# BHive® EMS

Optimize and control your energy with maximum precision and efficiency. Built on the experience of over 80 real storage projects.

**+90**

MANAGE  
INSTALLATIONS

**+99%**

PLANT  
AVAILABILITY

**24/7**

REMOTE  
MONITORING

**15 min**

OPTIMIZATION

— CENTRALIZED CONTROL • MULTI USER WEB INTERFACE

**BHive® Proprietary EMS**

Intelligent local control. Monitors and optimizes all energy assets in the installation autonomously, independent of connectivity.

**Interfaz Web 24/7**

Multi-user platform with real-time visibility, remote control, proactive alerts and global access from any device.

**Flexible & Agnostic**

Compatible with all major inverters, batteries and chargers. No hardware brand dependency, total integration freedom.

**Cybersecurity ISO 27001**

Encrypted and certified communications. Industrial protocols: OPC-UA, MQTT, Modbus TCP, REST API, FTP and VPN.

**The Optimizer:  
Multiplies the savings  
of your installation**

Intelligence layer on top of BHive® that maximizes economic return with charge/discharge strategies updated every 15 minutes based on real-time market signals.

**OMIE ARBITRAGE**

Charge when price is low, discharge when it's high.

**PV FORECAST**

Anticipate plant behaviour with historical data.

**BATTERY HEALTH**

Degradation management to extend asset lifetime.

**ANCILLARY SERVICES**

New revenue streams: regulation and ancillary services.

COMPATIBLE WITH

Sungrow

Huawei

ABB

Fronius

SMA

Ingeteam

CHNT

Janitza

Kempower

Alpitronic

Vega Chargers

Power Electronics



## GENERAL SPECIFICATIONS

PARAMETER	VALUE / DESCRIPTION
Supply Voltage	24 V DC
Power Consumption	1 A
Protection Index	IP20
Communication Protocol	ModBus TCP · ModBus RTU · OPC-UA · MQTT · REST API · FTP · VPN
Functionality	Functionality Monitoring and configuration management (HMI)

## Commercial Hardware - Phoenix Contact

### Industrial Hardware Platform

Phoenix Contact

Made in Europe

BHive® EMS runs on commercial hardware from Phoenix Contact, a leading European manufacturer in industrial automation and electronics. This guarantees component availability, long-term support and full traceability in demanding industrial environments.

Long Term Support

Industrial Traceability

Componentes Disponibles Globalmente

## NORMATIVE & CE MARKING

CERTIFICACIÓN	NUMBER	STANDARD	REFERENCE
ATEX—Class I Zone2 AEx nA IIC T4 · Class I Div.2 Groups A,B,C,D · Ex nA IIC Gc T4	IE366272	Cybersecurity	IEC 62351-3 · IEC 62443-42 SL2 · IEC 61850
IndustrialIT Security IACS Component	IITS2 029429 0027	Anti-Spill Certificate	RD 244/2019 · UNE 217001:2020
cULus	E238705	CE Marking	EMC & LVD Directive

## CERTIFICACIONES DE EMPRESA



ISO 9001  
Quality



ISO 14001  
Environment



ISO 27001  
Cybersecurity



Made in Europe  
Design & Manufacturing



cULus  
Electric sec.  
E238705



ATEX Zone 2  
Explosive atmospheres  
IE366272