



## Introduction

The Wattius wBMS-HX is a Battery Management System product family designed for applications up to **1.500 V** and provides reinforced isolation for all external interfaces according to IEC60664.

The wBMS-HX CMU16 is the 16-cell Cell Monitoring Unit of the HX family, **compatible with both wBMS-MX and wBMS-HX BMUs.**

The wBMS-HX products feature direct compliance with **IEC62619** and is pre-certified for **Functional Safety**, with a Compliance Report for **ISO13849:1** Performance Level D issued by a certified third-party testing entity.

## Technical Specifications

<b>Cell measurements (voltage &amp; temperature)</b>	Multiple cell chemistry. Extended internal redundancy and hardware integrity diagnostics. Open wire detection.
<b>Cell voltage</b>	5 - 16 cells. 0,1 - 4,5 Vdc. ± 1,8 mV cell voltage max total error.
<b>Cell temperature</b>	Up to 5 channels. Configurable NTC. ± 1°C cell temperature max total error.
<b>Balancing</b>	Configurable autonomous passive balancing strategy. 24 Ω per channel.
<b>Isolation</b>	1.500 V reinforced isolation (IEC60664).
<b>Consumption</b>	Active: < 10 mA Sleep: < 10 μA
<b>Operating temperature range</b>	-40 to +85 °C
<b>Dimensions</b>	L119 x W95 x H18 mm. 4x M4 mounting holes.
<b>Connectors</b>	Cell voltages and temperatures: Molex MicroFit. CMU-link communications: Molex MicroFit and/or RJ45.
<b>Compliance</b>	Functional Safety ISO13849:1 PLd (Compliance Report from certified third-party available). Fully compatible with IEC62619, including 2023/1542/EU. EMC: 2024/30/EU RoHS: 2011/65/EU



W A  I U S

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