





FFATURES

	IUILU
	BCU for BBU shelf
•	Communicates with BBU via RS485
•	Communicates with RMU via PMBus™
•	RJ45 connector provided for maintenance
	LED Status Indicators provided
	Hot swappable



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PRODUCT OVERVIEW

MWBB-BCU battery control unit (BCU) provides monitoring and control functions for <u>Battery Backup</u> <u>Units</u> (BBUs) installed within the <u>MWBBES-212</u> series battery shelves and communicates via PMBusTM with the <u>Remote Management Unit</u> (RMU). MWBB-BCU includes status LED indicators, is hot swappable and provides detailed communication and reporting for datacenter applications, via the RMU.

ORDERING GUIDE	
Part Number	Description
MWBB-BCU-1	Battery Control Unit (BCU) for MWBBU series, battery shelves

RJ45 INTERFACE				
Port	Spec.	Usage		
1	Serial console (RS-232C)	CLI		

FUNCTION AVAILABLE WITH BCU				
Application	Action	Description		
CLI	Control the unit	 Selection of the mode of BBU (Charge enable /Discharge enable /Peak assist /Sleep) Setting charging rate Setting threshold power of peak assist 		
CLI (BCU)	Reporting	 Mode of each BBU. Presence information of each unit Fault information of each BBU Input/output power of BBU(s) SOC of each BBU 		

FUNCTION AVAILABLE WITH BCU VIA RMU					
Application	Action	Description			
SNMP (RMU)	Reporting	 Mode of each BBU Presence information of each unit Fault information of each BBU Input/output power of BBU(s) SOC of each BBU 			
CLI	Control the unit	Same as CLI (BCU)			
(RMU)	Reporting	Same as CLI (BCU)			
Web GUI (RMU)	Reporting	Some battery status (SOC, input and output power of battery) can be monitored by graph.			



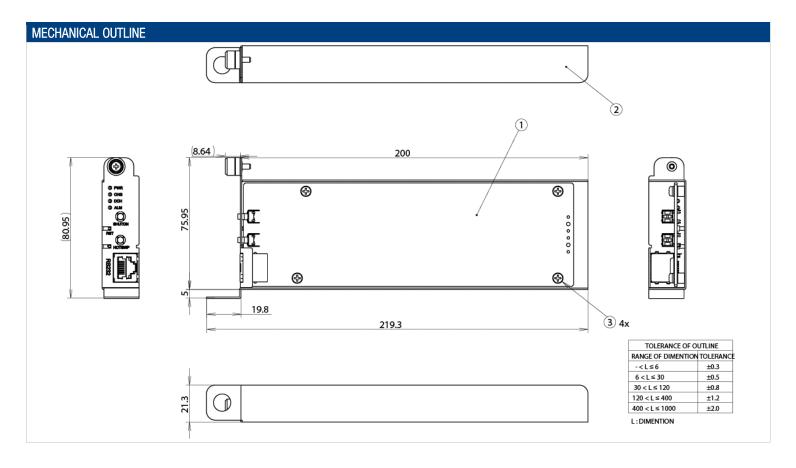
ENVIRONMENTAL CHARACTERISTICS					
Parameter	Conditions	Min.	Тур.	Max.	Units
Storage temperature range		-40		70	°C
Operating temperature range		0		40	°C
humidity	Storage, non-condensing	5		90	%
Hulfillulty	Operating, non-condensing	5		85	%
Operating altitude				3,000	m
MTBF	Per Telcodia SR-332 M1C1 @40°C	400k			hrs
Weight			210		g
Shock	30G, non-operating.				
Vibration	Random vibration,5-500Hz 1.11G, non-operating.				
Safety	RoHS				

STATUS INDICATION AND COM	ITROL	SIGNAL		
Front Panel View, BCU	Led	Label	Function	Status and Indication
	1	PWR	Power	Solid Green: BCU ON and/or successful BCU reset
PWR CHG DCH ALM SHUTDN	2	CHG	Charge	Solid Green: Charging Blinking Green: Acceptable of Charge Blinking rate: 2s / 25% duty-cycle OFF: Charge prohibited
RST	3	DCH	Discharge	Solid Green: Discharging Blinking Green: Acceptable of Discharge Blinking rate: 2s / 25% duty-cycle) OFF: Discharge prohibited
	4	ALM	Alarm	Solid Amber: Primary protection or less alarm is activated within BBU and/or BCU Blinking Amber: Secondary protection is activated within BBU Blinking rate: 2s / 25% duty-cycle OFF: No alarm conditions

BUTTON DES	BUTTON DESCRIPTION				
Button	Label	Function	Description		
Button 1	SHUTDN	Shutdown	Push and hold for 5 seconds to turn battery power off		
Button 2	HOTSWP	Hot Swap	Reserved for future use		
Button 3	RST	Reset	Push to reset BCU		
Button 4	-	Power Up			

RJ45 Connector Pin Assignment			
Amphenol	Pin	Signal	Description
	1	-	-
	2	-	-
	3	TXD	Sending data
The state of the s	4	GND	-
Bally,	5	GND	-
5-31	6	RXD	Receiving data
	7	-	-
	8	-	-





RELATED PRODUCTS				
Order Number	Description	Link to Datasheet		
MWBBU118-4000-A	BBU (Battery Backup unit)	https://power.murata.com/datasheet?/data/power/mwbbu118-4000-a.pdf		
MWBBES-212	BBU Shelf	https://power.murata.com/datasheet?/data/power/mwbbes-212.pdf		
MWOC-RMU	Monitor and Control Unit	https://power.murata.com/datasheet?/data/power/mwoc-rmu.pdf		

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This product is subject to the following operating requirements and the Life and Safety Critical Application

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