

Standalone type

Front



Bottom





Rack mount type







Bottom

C € KK

Features

- Integration on system power
- 2 models in 3U 19-inch rackmount and standalone configurations
- 7" touch Panel and buttons for easy on-site operation
- Ethernet port for on-site or remote monitor and control over the system
- Selectable PMBus, CANbus, RS-485, and RS-232 communication protocols
- · Support Data/ Event log with date and time
- · Support max. 32G SDHC SD card
- Four user programmable relay outputs for conventional remote monitoring or warning
- Web-based monitor/control UI provided for various applications
- 5 years warranty

Applications

- · Industrial automation
- EV Charging station
- · Burn-in systems
- UV curing equipmentLaser diode machines
- Telecommunication systems
- · Horticulture lighting
- · Building decoration lighting

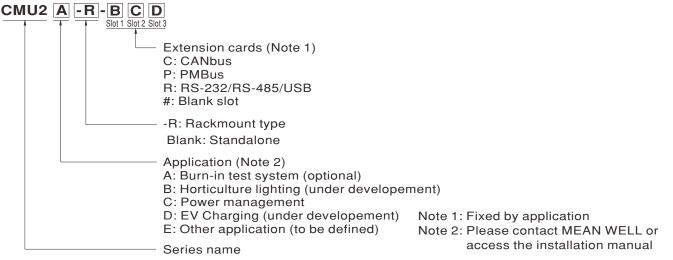
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

CMU2 is a fully digitalized smart controller that can execute tasks of monitoring and controlling over power system. CMU2 implements a 7" LCD touch panel to achieve intuitive operation, and developed a brand new web monitoring page for faster and smarter management. CMU2 not only being used to monitor the operating parameters and data of PSUs, such as output voltage, output current, internal temperature, fan rpm, series number and firmware version, but also can be used to adjust output voltage and current. In addition, it can remotely control single PSU or entire power system through LAN or internet.

■ Model Encoding





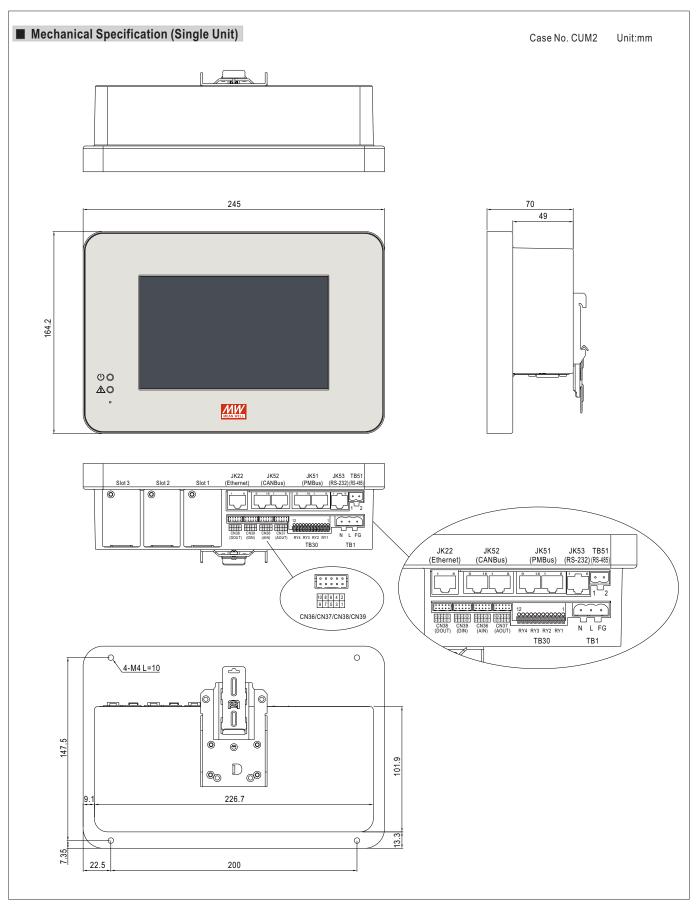
Multi-Industry General Purpose Smart Controller

CMU2 series

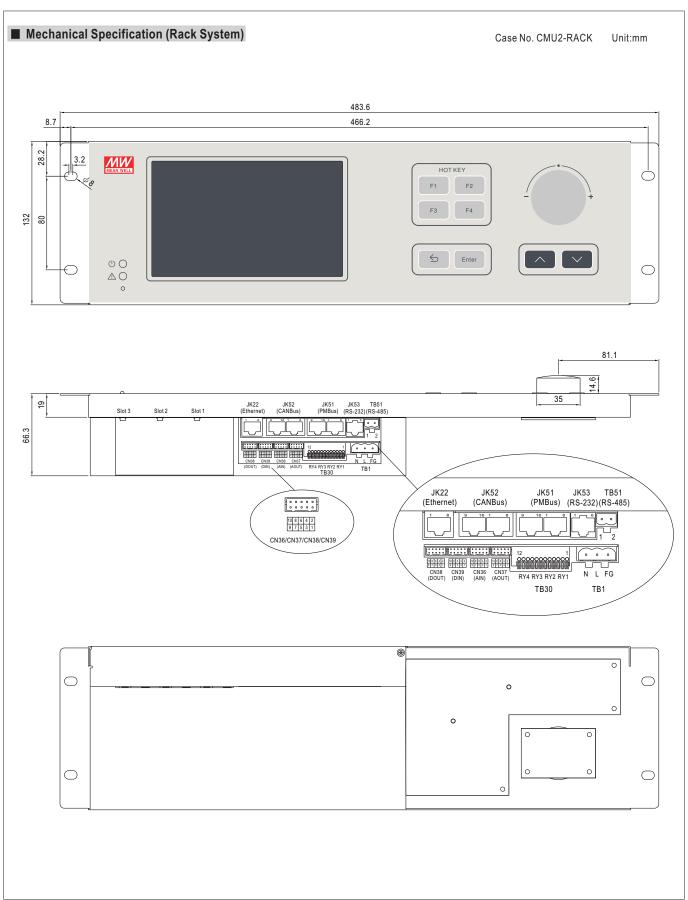
SPECIFICATION

MODEL (Note.8)		CMU2	CMU2 ☐ -R
	LCD DISPLAY	Display the DC output voltage, current, and status of each PSU	
	LED INDICATOR	Green: Power on/ Normal Red: Fault/ Abnormal	
OUTPUT		4 user programmable channels, 30V/1A	
OUTFUT		5 user programmable channels, 0-10V	
		5 user programmable channels, open collector signal	
	VOLTAGE RANGE	85 ~ 264VAC; 120-370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
INPUT	CURRENT	0.6A / 115VAC	
	* *	5 Channels, 0-10V, 12bit resolution	
		5 Channels, open collector signal	
	MONITORED	I/P & O/P Voltage, O/P current, temperature, fan rpm	
		PMBus, CANbus, RS-485, RS-232	
	SD CARD SLOT	SDHC 32GB Max.	
EUNCTION	FIRMWARE UPDATE	Update can be done via SD card or Ethernet access	
FUNCTION	UILANGUAGE	English, Traditional/Simplified Chinese	
	LOG	Record data and events	
	BUZZER	Alarms, mute	Button click & alarms, mute
		PMBus v1.1	Button click & dialins, mute
COMMUNICATION		CANbus 2.0B	
COMMUNICATION PROTOCOLS	NETWORK Note.4	Support IEEE802.3, 10/100base network	
111010000		Extension Cards	
		TCP/IP. NTP. SMTP. Modbus TCP	
ETHERNET SUPPORTED	PROTOCOLS		lood
SOFFORTED	WEB SERVER	Display status of system, parameters, data being logged or down	loau
EXTENSION		2 PMBus ports, PMBus V1.1 2 CANBus ports, CANBus 2.0B	
CARDS		2 USB ports, RS-232 port, RS-485 port	
	USB/RS-232/RS-485	7" TFT LCD, resolution 800x480, capacitive touch panel	
DISPLAY	LCD PANEL Note.2	Details of settings please refer to user's manual	
	WORKING TEMP	-25 ~ +60°C	
ENVIDONMENT	WORKING TEMP. Note.2 STORAGE TEMP.	-40 ~ +60°C	
ENVIRONMENT	VIBRATION		
		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	
OAFFTV 0	SAFETY STANDARDS	IEC62368-1, BS EN/EN62368-1 approved	
SAFETY &		I/P-O/P:3KVAC	
EMC (Note 4)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Conduction Class	P. Padiation Class A - PS EN/EN/64000 2 2 2
,,		Compliance to BS EN/EN35032 (CISPR32) Conduction Class Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN6	
	EMC IMMUNITY		, , , , , , , , , , , , , , , , , , , ,
OTHERS	MTBF	680K hrs min. Telcordia TR/SR-332 (Bellcore); 75.9K hrs min. 245*70*164.2mm (L*W*H)	,
OTHERS	DIMENSION		483.6*66.3*132mm (L*W*H)
NOTE	PACKING 1.Depend on application.	1.68Kg; 8pcs/14.4Kg/2.14CUFT	2.16Kg; 6pcs/14Kg/2.91CUFT
NOTE	2.LCD may freeze under -20°C. 3.CN36,CN37 are considered as O/P. 4.All functions of signal connectors: DIN/DOUT,AIN/AOUT,Relay,RS-232,RS-485,PMBus,CANBus are defind by application. Please check installation manual for detail. 5.The controller is considered a component which will be installed into a final equipment. EMC is tested by the controller unit, no control equipm connected. The final equipment must re-confirmed that still meets EMC directives. For guidance on how to perform these EMC test, Please re "EMI testing of component power supplies".(as available on http://www.meanwell.com) 6.The RTC power supply used super capacitors, which can last for only 7 days. If the time exceeds the limit, the RTC date must be re-adjusted. 7.Up to 40 power supplies can be operate in parallel connection, and possible up to 48 power supplies. 8.Order model only CMU2C-P##, CMU2C-R-P##, CMU2C-R-C## and optional CMU2A-#R# available. ** Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx		EMC is tested by the controller unit, no control equipment is guidance on how to perform these EMC test, Please refer to e exceeds the limit, the RTC date must be re-adjusted. ower supplies. onal CMU2A-#R# available.





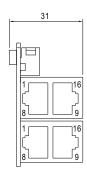


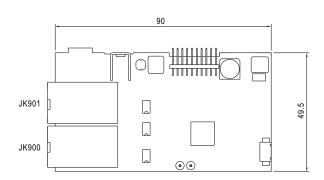




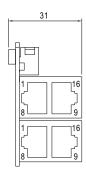
■ Mechanical Specification (Extension cards)

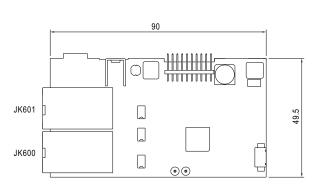
※ PMBus(P card)

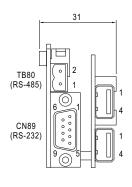


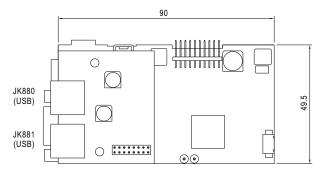


※ CANBus(C card)











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💥 LED Status Indicators & Corresponding Signal at Function Pins

LED Description	
Green	The power supply functions normally
Red	The LED will present a constant red light when the abnormal status arises

※ AC IN Connector Pin No. Assignment (TB1):

Pin No.	Function	Description
1	AC/N	AC input neutral wire
2	AC/L	AC input live wire
3	FG	FG wire

$ightharpoonup{\ensuremath{\times}}$ Relay Connector Pin No. Assignment (TB30): DECA MX422-25412 or equivalent

Pin No.	Function	Description
1	Relay1-NO	Normal-open contact of programmable relay1
2	Relay1-NC	Normal-close contact of programmable relay1
3	Relay1-COM	Common for relay1 NO/NC contact
4	Relay2-NO	Normal-open contact of programmable relay2
5	Relay2-NC	Normal-close contact of programmable relay2
6	Relay2-COM	Common for relay2 NO/NC contact
7	Relay3-NO	Normal-open contact of programmable relay3
8	Relay3-NC	Normal-close contact of programmable relay3
9	Relay3-COM	Common for relay3 NO/NC contact
10	Relay4-NO	Normal-open contact of programmable relay4
11	Relay4-NC	Normal-close contact of programmable relay4
12	Relay4-COM	Common for relay4 NO/NC contact

imes AIN Connector Pin No. Assignment (CN36): HIROSE DF11-10 or equivalent

Pin No.	Function	Description
1	AIN 1	The Analog input signal with GND as reference
2,4,6,8,10	GND	Common GND for AINx
3	AIN 2	
5	AIN 3	The Application of signal with CNID as a foreign
7	AIN 4	The Analog input signal with GND as reference
9	AIN 5	

\divideontimes AOUT Connector Pin No. Assignment (CN37): HIROSE DF11-10 or equivalent

Pin No.	Function	Description
1	AOUT 1	The Analog output signal with GND as reference
2,4,6,8,10	GND	Common GND for AOUTx
3	AOUT 2	
5	AOUT 3	The Application of the CND as a face of
7	AOUT 4	The Analog output signal with GND as reference
9	AOUT 5	

💥 DOUT Connector Pin No. Assignment (CN38): HIROSE DF11-10 or equivalent

Pin No.	Function	Description
1	DOUT 1	The isolated digital output signal with FG as reference Open collector signal, Max. singal voltage is 5V with FG as reference
2,4,6,8,10	FG	Common FG for DOUTx
3	DOUT 2	
5	DOUT 3	The isolated digital output signal with FG as reference
7	DOUT 4	Open collector signal, Max. singal voltage is 5V with FG as reference
9	DOUT 5	



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💥 DIN Connector Pin No. Assignment (CN39)

Pin No.	Function	Description
1	DIN 1	The isolated digital input signal with FG as reference Open from FG or +5V: Logic "1" input to CMU2 Short to FG or 0V: Logic "0" input to CMU2
2,4,6,8,10	FG	Common FG for DINx
3	DIN 2	
5	DIN 3	The isolated digital input signal with FG as reference
7	DIN 4	Open from FG or +5V : Logic "1" input to CMU2 Short to FG or 0V : Logic "0" input to CMU2
9	DIN 5	

💥 RS-485 Connector Pin No. Assignment (TB51) & Extension Cards(RS-485(TB80)): DECA ME030-5802 or equivalent

Pin No.	Function	Description
1	D-/DB	Differential digital signal used in the RS485 interface
2	D+/DA	Differential digital signal used in the RS485 interface

💥 RS-232 Connector Pin No. Assignment (JK53): RJ11 6 position

Pin No.	Function	Description
1	+5V_AUX	VCC
2	RXD	Data receiving pin of RS-232 interface
3	FG	Common FG for signal
4	TXD	Data transmitting pin of RS-232 interface
5,6	NC	Not used

💥 PMbus Connector Pin No. Assignment (JK51) & Extension Cards(PMBus (JK900, JK901)): RJ45 8 positions

Pin No.	Function	Description
1,2,3,5,9, 10,11,13	NC	Not use
4,12	CONTROL	Remote ON/OFF control pin (Note)
6,14	SDA	Serial Data used in the PMBus interface (Note)
7,15	SCL	Serial Clock used in the PMBus interface (Note)
8,16	FG	Common FG for signal

Note: Isolated signal, with FG as reference

💥 CANbus Connector Pin No. Assignment (JK52) & Extension Cards(CANBus (JK600,JK601)): RJ45 8 positions

Pin No.	Function	Description
1,2,3,5,9, 10,11,13	NC	Not use
4,12	CONTROL	Remote ON/OFF control pin (Note)
6,14	CAN-H	CAN-H used in the CAN Bus interface (Note)
7,15	CAN-L	CAN-L used in the CAN Bus interface (Note)
8,16	FG	Common FG for signal

Note: Isolated signal, with FG as reference $\,$

💥 Ethernet Connector Pin No. Assignment (JK22): RJ45 8 position

Pin No.	Function	Description	
1	TX+	Transmit data used in the Ethernet interface	
2	TX-	Transmit data used in the Ethernet interface	
3	RX+	Receive data used in the Ethernet interface	
4,5,7,8	FG	Common FG for signal	
6	RX-	Receive data used in the Ethernet interface	

% Extension Cards(RS-232(CN891))

Pin No.	Function	Description
1,4,6,7,8,9	NC	Not used
2	RXD	Data receiving pin of RS-232 interface
3	TXD	Data transmitting pin of RS-232 interface
4	GND-FG	RS-232 common GND. This signal connects to FG and isolated from -V and GND-AUX



Extension Cards(USB(JK880,JK881)): USB A Type

Pin No.	Function	Description			
1	+5V_AUX	VCC / max. 0.5A			
2	D-	Data-			
3	D+	Data+			
4	FG	Common FG for signal			

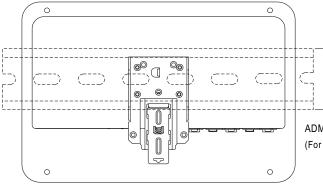
■ Table for functionality of connectors

Model	TB30	TB51	CN36	CN37	CN38	CN39	JK51	JK52	JK53	JK22
CMU2A-#R# (Optional)	√	Х	Х	Х	Х	Х	Х	√	Х	√
CMU2C-P##	√	Х	Х	Х	√	√	√	Х	Х	√
CMU2C-R-P##	√	Х	Х	Х	√	√	√	Х	Х	√
CMU2C-C##	√	Х	Х	Х	√	√	Х	√	Х	√
CMU2C-R-C##	√	Х	Х	Х	√	√	Х	√	Х	√

^{√:} Functional

■ Installation Instruction

1 Din Rail



This series fits DIN rail TS35/7.5 or TS35/15.

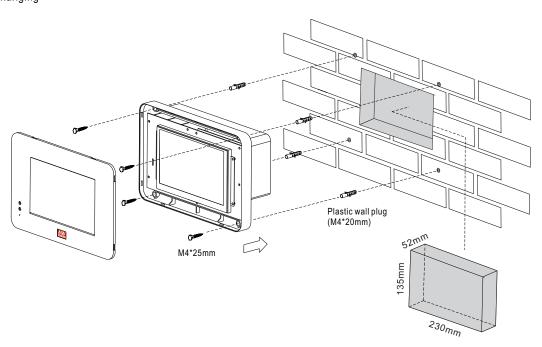
For installation details, please refer to the Instruction manual.

ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15 (For reference only. Not included with unit.)

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Back View

Wallhanging

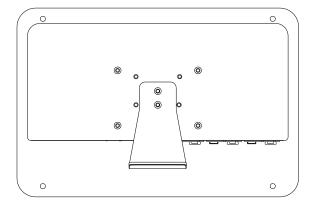


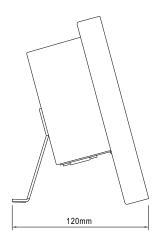
X: Not functional





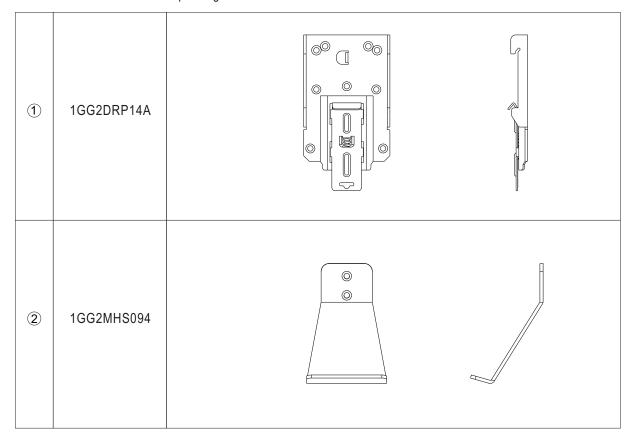
3 Desktop





■ Accessory List

Accessories are included in corresponding models





■ TYPICAL APPLICATION



