Concept



Possess the benefits to provide flexible solutions, time to market, fast delivery, high cost performance ratio and high reliability, MEAN WELL System Power Solution is now ready to power up your business in multiple industries and diversified applications!


Power Module +

Power Shelf +

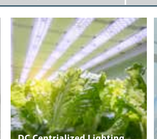
Power Controller +

19" Rack Cabinet

Series Name	CMU3	CMU2
	 Coming Soon	
Product Positioning	Next-generation AI intelligent controller supporting voice systems and cloud computing for smart energy management	Traditional digital controller suitable for monitoring and managing single or entire power systems
User Interface	No built-in control panel; operated via mobile APP	Built-in 7"TFT touch panel with buttons for easy on-site configuration and real-time control
Communication Interface	RS-485 x2, CANbus x2, PMBus x2, Ethernet x2, USB-C, USB 2.0 x2	RS-232, RS-485, CANBus, PMBus, USB x2; supports various expansion card modules
Wireless Communication	Supports WiFi, NFC	Not natively supported (expandable via optional modules)
Cloud Integration Capability	Supports AWS, MQTT, SMTP for uploading monitoring data and remote configuration	Supports Ethernet upload and web-based monitoring; simpler functionality
Data Logging & AI Analysis	Equipped with AI algorithms to analyze usage behavior and device health, offering optimization suggestions	Supports log and event recording, SD card data logging
Input Voltage	10~28Vdc	85~264Vac
Relay Output	2 programmable relays (30V / 1A)	4 programmable relays (30V / 1A)
Analog / Digital I/O	4 digital programmable input/output channels (Open Collector)	5 DIN / DOUT channels, 5 AOUT / AIN channels (0~10V)
Firmware Upgrade	Supports online Ethernet/USB partitioned upgrade	Supports firmware upgrade via Ethernet or SD card
Supported Languages	English, Traditional Chinese, Simplified Chinese	English, Traditional Chinese, Simplified Chinese
Operating Temperature	-25°C~ +70°C	-25°C~ +60°C
Applications	Multi-industry applications as smart home/ building energy monitoring, power efficiency optimization, automated scheduling, and others	Conventional power system monitoring, aging test, EV charging and others
Dimensions (Lx Wx H)	192x 178x 45.5mm (Standalone) 482x 193.6x 44.5mm (Rackmount)	245x 70x 164.2mm (Standalone) 483.6x 66.3x 132mm (Rackmount)

System Power Solution for Multiple Industries


UV Curving Equipment


DC Centrialized Lighting


EV Charging


Data Center

Combination Demonstration

PowerNex Accessories


1U/2U/3U Blank Panel
Part No. : RA9AQ


1U/2U/3U Vent Panel
Part No. : RA9AR


Support Angle
Part No. : RA27904


Support Plate
Part No. : RAF9AH01


19" Rack Cabinet
Part No. : RA-U-750**

2 DHP-1UT-B



3 NCP-3200 Series



7 ERG-5000 Series



8 NTN-5K Series



1 CMU2C-R/CMU2A-R/CMU2E



6 BIC-5K Series NEW



5 BIC-2200 Series



9 NTG-7K5 Series Coming Soon



10 NTG-20K Series Coming Soon



4 SHP-30K Series









UPS Backup System	Energy Saving Burn-in System	Bidirectional System Power	Programmable DC System Power	Grid & Off-grid Energy Storage System

Cabinet	Model No.	RA-15U-750	RA-22U-750	RA-30U-750
	Height (U)	15	22	30
	Dimensions (LxWxH)	750x 600x 912 mm	750x 600x 1224 mm	750x 600x 1579 mm
Power Controller	Recommend Model	1 CMU2C-R / CMU2A-R / CMU2E		
Power Shelf		2 DHP-1UT-B (NCP-3200 series only)		
Power Module	Recommend 1U Model	3 NCP-3200 series		
	Recommend 2U Model	4 SHP-30K series		
Bidirectional Power Supply	Recommend 1U Model	5 BIC-2200 series		
	Recommend 2U Model	6 BIC-5K series		
Grid Type Inverter	Recommend 2U Model	7 ERG-5000 series		
Off-Grid Type Inverter	Recommend 2U Model	8 NTN-5K series		
Off-grid / Grid-connected Hybrid Inverter	Recommend 2U Model	9 NTG-7K5 series 10 NTG-20K series		
Max. Number of Installations (Unit) (with Controller)	1U Model	40	72	100
	2U Model	5	8	12
Max. Output Power (KW) (Product Rated Power x Maximum Number of Installations)	1U Model	128	230	320
	2U Model	150	240	360
Application	Energy control system, Battery power recycling system, Burn-in power recycling system, Industrial power system, Grid & off-grid energy storage system and others.			

Note: We value the information accuracy, if there's any discrepancy between the data presented in our brochure and the specification, the specification shall prevail. (Please refer to www.meanwell.com for the latest spec.).

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Advantages

Smart Rack Power Solution in Digitalized Design

Remote ON/OFF

This signal allows user to turn on/off power modules all at once or one by one.

Output Programmable Function

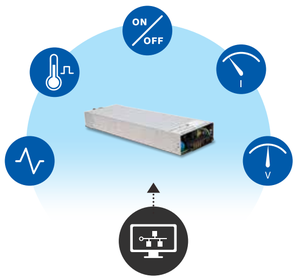
By using external DC signal, output voltage (PV) and constant current limit (PC) can be tuned up or down according to end user's need.

T-alarm

PSU sends out TTL signal to warn probable over-heating event.

Intelligent Control

Featuring multiple I/O signals, programmable outputs and communication to enable easy and smart monitor and control from power supply to the entire power system.





Power Supply in Modular Design

Rack power/charger use connector as interface to fit power modules into power shelf which realizes the key function of "hot swap" and enables power system with flexibility to promptly enlarge output power for future needs.

Upgradable and Redundant Power Solution in Building Block Design

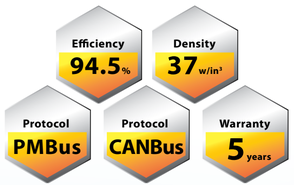
Configure power shelves in parallel connection, the total output power can be multiplied and upgradable. Or configure solutions with back-up power in N+1 redundancy. Using off-the-shelf 3200w digitalized power module as the base, MEAN WELL successfully creates a wide range of solutions from 3200w up to 128KW.



The Core of Digital System Power Solution

Rack Power NCP-3200 Series + Digital Controller CMU2 Series

Automate · Industrial · Telecom · Network · EV



Rack Controller

CMU2C-R

L147.5x W127x H41(1U) mm





PMBus Power Management. Defined. · CANBus interface

Power Shelf

DHP-1UT-B (HV)

L400x W440x H44mm



Rack Power/Charger

NCP-3200

L325.8x W107x H41(1U) mm



Easy Hand Grip · Hot Swap · Ventilation Fans Forced Air Cooling

Features

Parallel · PFC · UL62368-1 · BS EN/EN62368-1 · TPTC004 · IEC62368-1

Power Supply Mode

- Programmable Outputs, PV & PC functions
- Built-in OR-ing FETs to support hot swap
- Active current sharing
- Built-in DC fans forced air cooling
- Protections: Short circuit, over voltage & over temp.
- Optional conformal coating

Battery Charger Mode

- Charge lead-acid (Gel, Flooded & AGM) and Li-Ion batteries
- Built-in 3 three-stage charging curves and 1 programmable curve
- Protections: Battery under voltage, Battery no connection

Model No.	Vin	Output	Efficiency
NCP-3200-24	90~264VAC	24V, 0~133A	93.5%
NCP-3200-48	90~264VAC	48V, 0~67A	94.5%
NCP-3200-380	90~264VAC	380V, 0~9.6A	94%

Model No.	Vin	Output	Efficiency
NCP-3200-24	90~264VAC	28.8V, 0~110A	93.5%
NCP-3200-48	90~264VAC	57.6V, 0~55A	94.5%

March 2026

MEAN WELL

Your Reliable Power Partner



System Power Solution

Integrating Digital Rack Power, Charger and Controller for Industrial Applications

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