



上海恩阶电子科技有限公司
Shanghai Energy Electronic Technology Co., Ltd.

BMS专家，深耕BMS领域十三年
让锂电更有“锂想”，为锂电保驾护航

致力于新型能源使用方式的研究、开发和应用

CONTACT

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CORPORATE PROPAGANDA

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About Us



About Us

CNEnergy was founded in September 2016 and is located on the 1&4 floor of Building 3, Caohejing (Zhongshan) Science and Technology Park, No. 68, Zhongchuan Road, Songjiang District, Shanghai.

The company is mainly engaged in BMS research and development, production and sales of new energy power lithium batteries and energy storage batteries. The products involve home energy storage, communication base station backup power, smart lithium batteries, AGV, electric forklifts, super capacitors and custom development of BMS.



Our Mission

New energy technology is of great significance to mankind, enabling mankind to get rid of the oil yoke and make revolutionary changes in lifestyle and production methods.

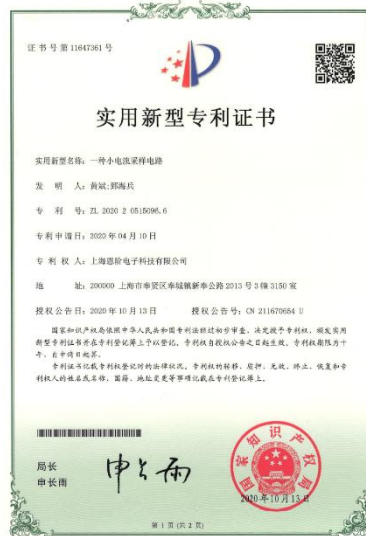
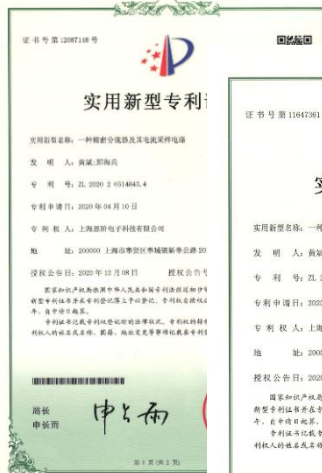
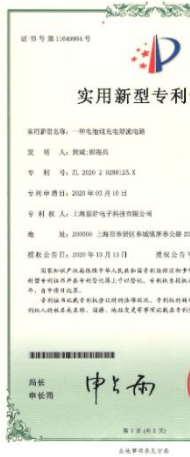
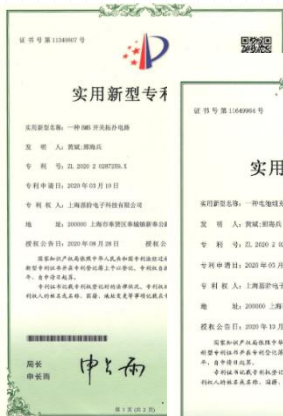
New energy technology has two important directions, the revolution of energy sources and energy use style revolution.

New energy batteries will be more widely used in various fields of human life and production in the future, higher requirements are put forward for the management of new energy batteries.

CNEnergy Electronic Technology Co., Ltd. has been committed to the research, development and application of new energy battery management system (BMS). Our mission is to change the way humans use energy!

Intellectual Property

类型	证书名称
Patented (part)	电池组充电限流电路 (Battery pack charging current limiting circuit)
	多组电池防冲击电路 (Multiple battery shock protection circuit)
	BMS开关拓普电路 (BMS switch topp circuit)
	电池供电功耗管理电路 (Battery power consumption management circuit)
	精密分流器及其电流采样电路 (Precision shunt and its current sampling circuit)
	多路供电电源电路 (Multiple power supply circuit)
Software Copyright (part)	备用电池管理软件 (Spare battery management software)
	低速车电池管理软件 (Low-speed car battery management software)
	储能电池管理软件 (Energy storage battery management software)





PART
02

Highlights



Highlights

- **Positive topology**

The positive electrode topology is adopted to effectively reduce shallow charge and shallow discharge, and prolong battery life; the negative electrode of the circuit has a common ground, which reduces the interference caused by EMC and MOSFET turn-on and turn-off.

- **Current limit mode**

The MOS tube synchronous rectification technology is adopted for the current limiting of multiple battery packs with parallel current greater than 50A, which effectively reduces heat generation, improves efficiency, and reduces area.

- **Consumption management**

Soft switch: The battery can be set to automatically shut down in standby mode to reduce unnecessary loss; to avoid continuous power consumption caused by forgetting to turn off the lock switch. Zero power consumption: cut off the positive power supply load of the battery after shutdown, and the power consumption of the BMS board is as low as 1 microampere. Hardware secondary protection: cut off the battery load, reduce power consumption, and avoid battery failure caused by battery undervoltage.

- **Cell compensation**

In the scenario of battery series and parallel connection and high current, through cell compensation, the mis-opening of the balance caused by the internal resistance pressure difference of the busbar is reduced, and the capacity deviation is reduced. Cell voltage/capacity monitoring is more accurate, effectively extending battery life.

- **AFE sampling protection**

AFE protection circuit supports the dislocation and disorder of harness sequence, the reverse of high and low sampling harness and disconnection protection

- **Match multiple inverters**

At present, it has matched communication with more than dozens of mainstream inverters and can be switched or adaptive compatible use.

- **Meet various certifications**

It has passed CE,UL, TUV and other certifications with battery pack, ensuring the quality and safety of software





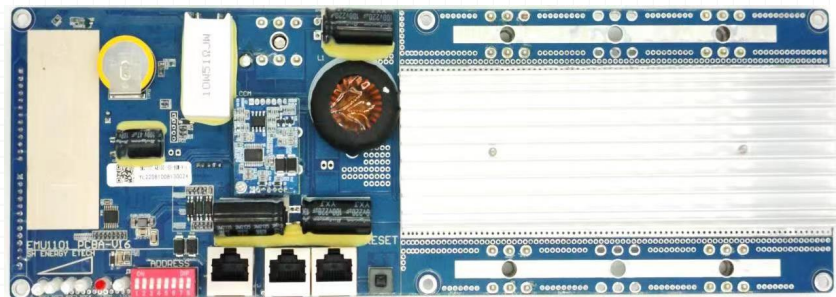
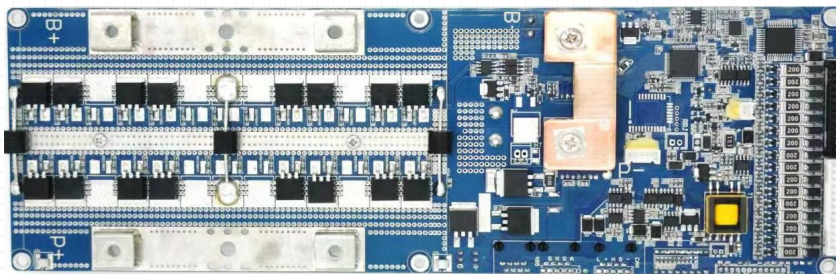
PART
03

Product Specification

Specification

Model	EMU-1101	EMU-1103	EMU-1003	EMU-2000	EMU-1203
current	100A/150A/200A	50A/75A	50A/75A	0~200A	150A
Strings	8~16	8~16	8~16	8~16	4
Dimensions	300mm*100mm*30mm	260mm*80mm*25mm	255mm*80mm*20mm	300mm*120mm*50mm	180mm*120mm*45mm
Communication	RS485/CAN/RS232	RS485/CAN/RS232	RS485/RS232	RS485	RS485/CAN/RS232
current limiting	Integrated 10A Current Limiting optional active/passive Mode	Integrated 10A current limiting optional active/passive Mode	Integrated 10A Current Limiting optional active/passive Mode	Charge/Discharge Current Limiting	40A current limiting Optional active/passive Mode

EMU1101



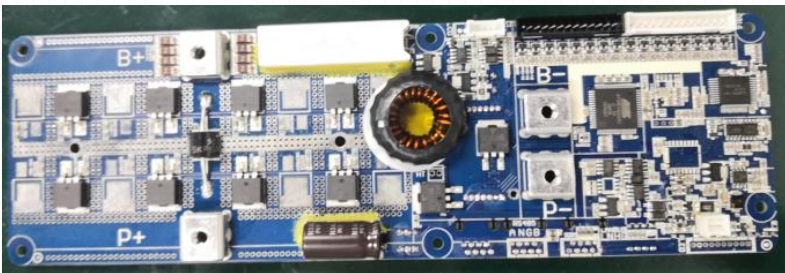
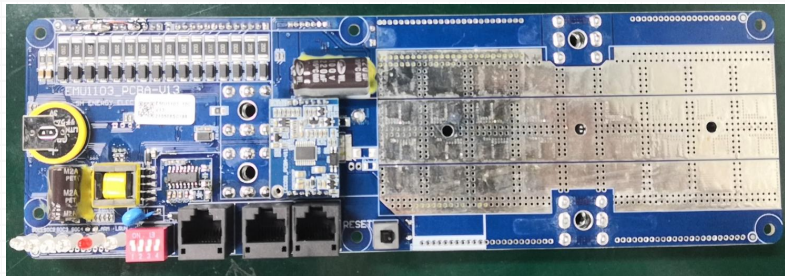
Basic Functions

- *Positive protection design, same port for charging/discharging*
- *For 8~16 strings, 15 / 16 string compatible*
- *Intergrated 10A limiting, opertional for active/passive mode*
- *Low sleep power consumption (<10uA)*
- *Two equalization modes (charging/standby)*
- *Comunication: RS485/RS232/CAN/RM485 (support parellel, addr automatic assignment)*
- *100A/200A charging/discharging*
- *10 in 1 CAN communication protocol*
- *Support upper computer*

Expand Functions

- *Heating function (200W)*
- *Adapter board*
- *2.7' LCD*
- *Bluetooth*

EMU1103



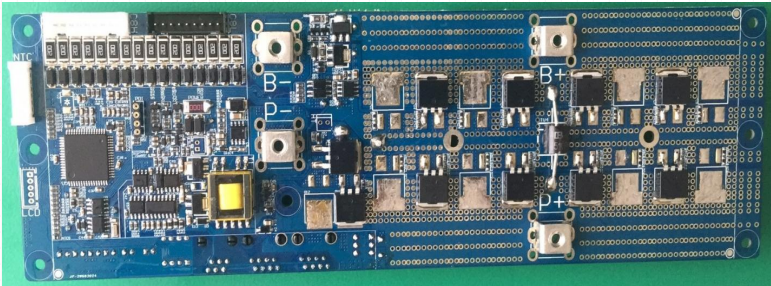
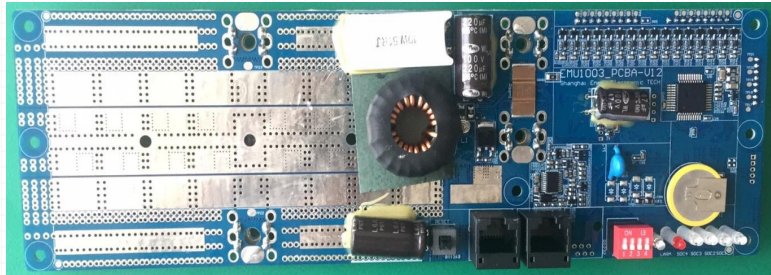
Basic Functions

- *Positive protection design, same port for charging/discharging*
- *For 8~16 strings, 15 / 16 string compatible*
- *Intergrated 10A limiting, operational for active/passive mode*
- *Low sleep power consumption (<10uA)*
- *Two equalization modes (charging/standby)*
- *Communication: RS485/RS232/CAN/RM485 (8 parallel)*
- *50A/75A charging/discharging*
- *10 in 1 CAN communication protocol*
- *Support upper computer*

Expand Functions

- *Heating function (200W)*
- *Adapter board*
- *2.7' LCD*

EMU1003



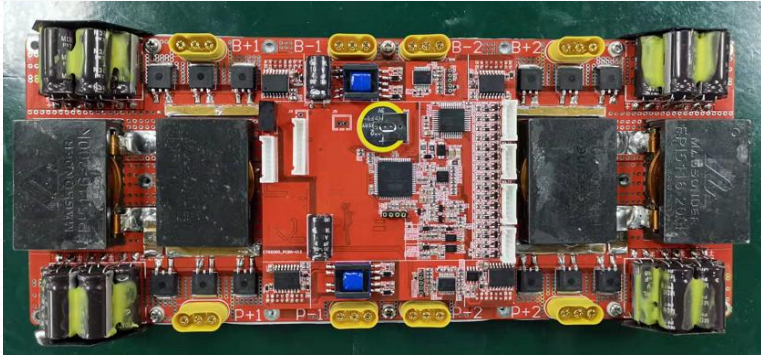
Basic Functions

- *Positive protection design, same port for charging/discharging*
- *For 8~16 strings, 15 / 16 string compatible*
- *Intergrated 10A limiting, optional for active/passive mode*
- *Two equalization modes (charging/standby)*
- *Low sleep power consumption (<10uA)*
- *Communication: RS485/RS232 (8 parallel)*
- *50A/75A charging/discharging (100A for customize)*
- *Support upper computer*

Expand Functions

- *Heating function (200W)*
- *Adapter board*
- *2.7' LCD*

EMU2000



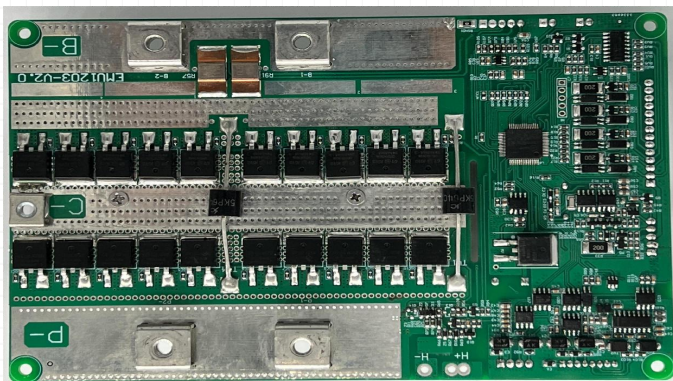
Basic Functions

- *Lithium/lead-acid mixed use, lithium battery new and old mixed use*
- *Bidirectional voltage rise and fall, charge and discharge current limiting*
- *Reverse connection protection*
- *Two equalization modes (charging/standby)*
- *Communication: RS485(support parallel, addr automatic assignment)*
- *Three work mode; Li battery priority discharge*
- *Support upper computer*

Expand Functions

- *Heating function (200W)*
- *Adapter board*
- *2.7' LCD*

12V Storage



Basic Functions

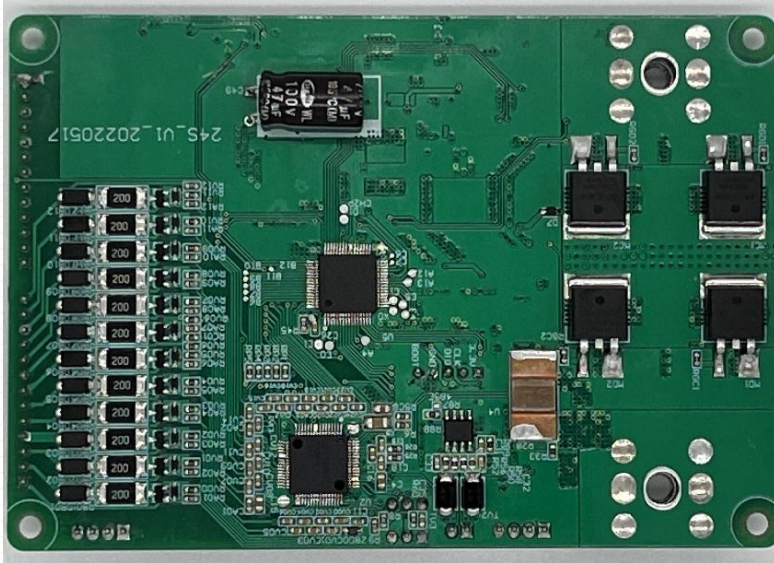
- *negative protection design, same port for charging/discharging*
- *Two equalization modes (charging/standby)*
- *Communication: RS485/RS232/CAN/RM485 (support 4 parallel or 4 series connection, addr automatic assignment)*
- *150A charging/discharging*
- *Support upper computer*

Expand Functions

- *40A limiting, optional for active/passive mode*
- *2.7' LCD*
- *Bluetooth*



Two-wheeler BMS



Basic Functions

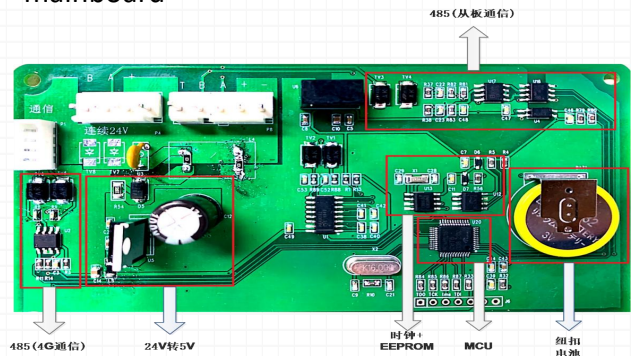
- *negative protection design, same port for charging/discharging*
- *For 8~24 strings, 23/ 24 string compatible*
- *Communication: RS485/RS232/CAN/RM485*
- *Two equalization modes (charging/standby)*
- *150A charging/discharging*
- *Support upper computer*

Expand Functions

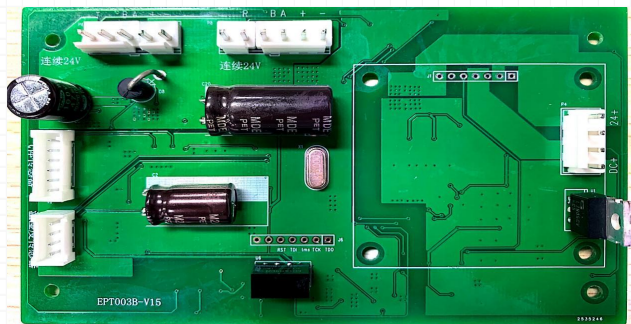
- *2.7' LCD*
- *Bluetooth*

IOT

mainboard

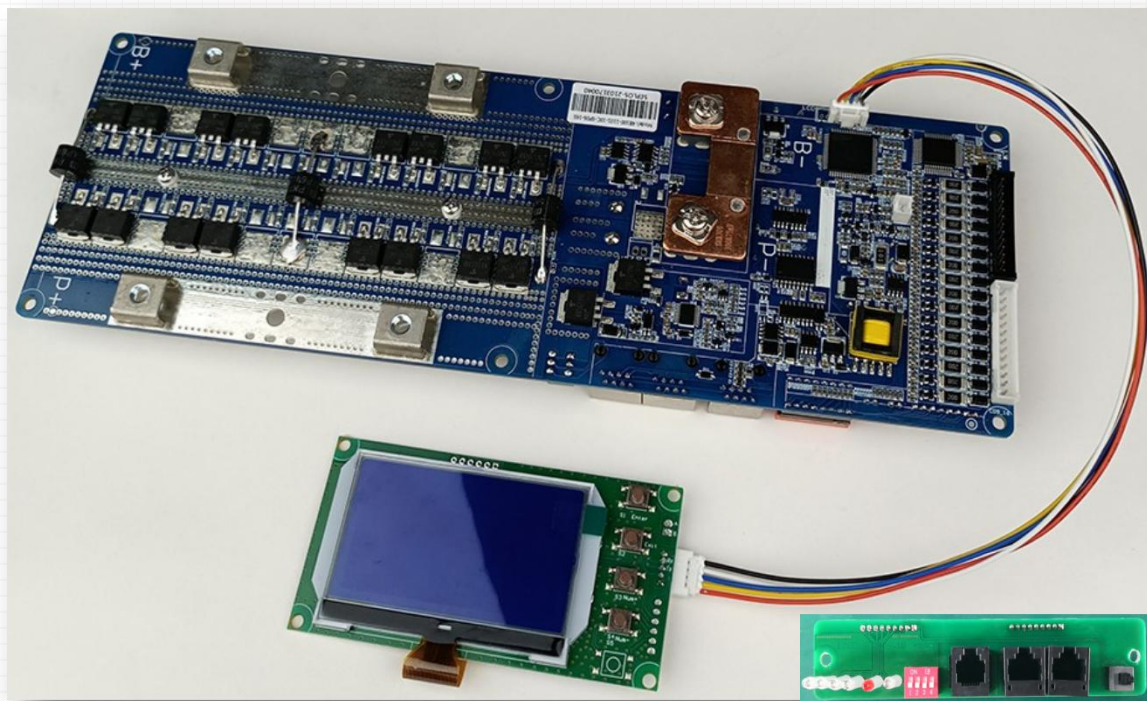


slave plate



Basic Functions

- *Application of agricultural and pasture intelligent sprinkler system scenario*
- *Two equalization modes (charging/standby)*
- *Communication: RS485/RS232 (A maximum of 50 slave servers are supported. 35 parallel servers are recommended, addr automatic assignment)*
- *4G communication, support mobile APP intelligent management*
- *Multi-channel temperature and humidity sensors are applied in the scene of the agricultural and pasture intelligent sprinkler system to intelligently monitor the real-time state of agricultural and pasture animals*



- Support interfaces expansion: SOC indicators, weak current switch, dial switch, CAN interface, RS485 interface, reset button, etc
- Can be customized according to customer needs

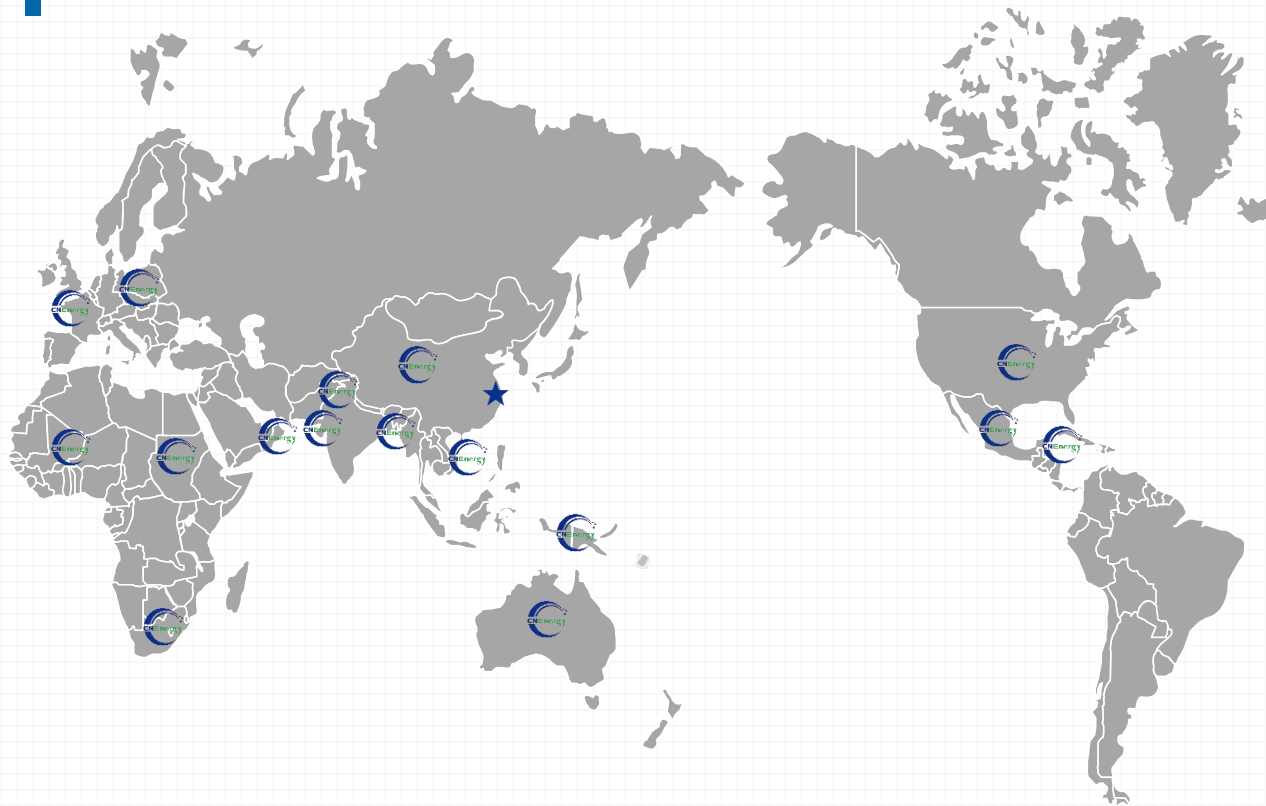


PART
04

Footprint



Footprint





上海恩阶电子科技有限公司

ShangHai Energy Electronic Science and Technology Ltd



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