



# SEPLOS 51.2V 200Ah

# **Battery Pack User Manual**

Dongguan Seplos Technology Co., Ltd

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#### 1. Introduction

The 51.2V 200Ah Lithium ion battery pack, is applicable both for residential and commercial energy storage system, which is assembled with two PUSUNG-R Model that with 3.2V 100Ah LFP prismatic cell in 16S1P configuration, and accompany with 16S 100Ah SEPLOS Smart BMS. Each pack support 16 packs in parallel to easily expand capacity. The pack can not connected in series. And do not mix parallel the battery packs of different brands or models

#### 2. Functions

- Calculation of battery voltage: Get the individual cell voltage of the 16cells. And the voltage difference around ±20mv.
- Detection of temperature: 4 temperature sensors for battery, 1 ambient sensor, 1 temperature sensor for MOSFET. The temperature value different around ± 2℃.
- Calculation of capacity and cycle times: calculate the real capacity via a complete charging and discharging cycle. The remaining capacity value difference around 5%.
- Equalization: Start balance at charging or standby status to prolong battery cycle life.
- Communication interface: The data can be monitored by command of remote regulation, telesignalization, telecontrol, and telemetering

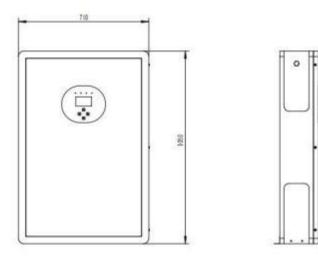
through PC or other intelligent devices, correspond with YD/T 1363.3 protocol request and reach cascade communication at the same time.

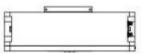
- Read, store and record of historical data: easy check the historical data when battery get abnormal. Max. 500 status can be recorded and stored.
- Parameter setting: all the parameters, including low/over voltage threshold, charging/discharging current, high/low temperature, capacity, working mode, charging/discharging current limiting threshold ect. can be configurable via Battery Monitor software.
- Working mode: charging/discharging current limiting mode, rated voltage output mode, and directly output mode, three working mode to be selected via software.
- Multi-protection functions: battery protection, high/low temperature protection, short circuit protection, BMS protection.

# 3. Specifications

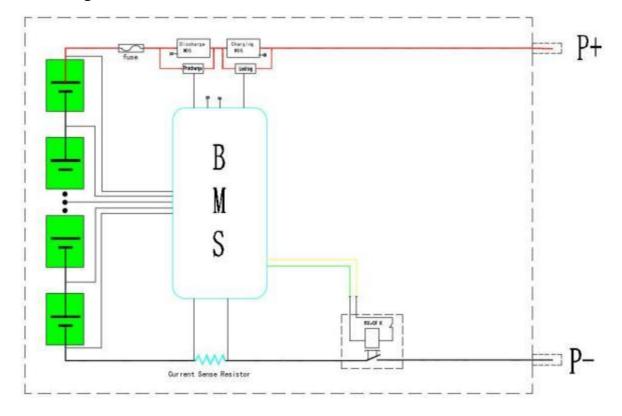
# 3.1 Appearance and dimension







# 3.2 Diagram



# 3.3 Performance and parameters

Items	Specifications
configuration	2*1P16S
Rated voltage	51.2V
Working voltage range	42V~58.4V
Rated capacity	200Ah
Rated energy	10.24KWh
Standard charging/discharging current	100A @25± 2°C
Max. Charging current	200A@25± 2°C
Max. Discharging current	200A @25± 2°C
Working temperature range	0 ~ 40°C(Charge)
working temperature range	-20 ~ 40°C(Discharge)
	- 10°C~35°C (For one month)
Storage temperature and humidity	25±2℃(For three months)
	65%±20%RH
Dimension	(1050)× (710)× (211.5)mm
Net weight	125Kg± 3kg
Cuele life	6000 cycles @25℃
Cycle life	50A charging/discharging current 80% DOD EOL80%
IP grade	IP 65
Communication interface	CAN&RS485
Altitude	0-3000m
Humidity range	5~95%

# 3.4 BMS settings

Functions	Status		Default	Configurable Range
		Over voltage warning	3500mV	Over voltage warning recovery - over voltage protection
Individual cell		Over voltage warning recovery	3400mV	3000mV - over voltage warning
voltage warning	ON	Under voltage warning	2900mV	Under voltage protection - under voltage warning recovery
		Under voltage warning recovery	3000mV	Under voltage warning - 3300mV
		Over voltage protection	3650mV	Over voltage warning - 4500mV
		Over voltage protection recovery	3400mV	Over voltage warning recovery - over voltage protection
Individual cell over voltage	ON		decrease to	al cell voltage over voltage
protection		Over voltage recovery condition		aining capacity lower f the intermittent
			Both condit satisfied.	ions should be
			Output curre	
		Under voltage protection	2700mV	1500mV - under voltage protection recovery
Individual cell under voltage protection	ON	Under voltage protection recovery	2900mV	Under voltage protection - under voltage warning
		Under voltage protection condition	under voltag threshold, E communicat	dividual cell gets ge protection BMS maintain ion with inveter for nd powered off.

		Lindon valtara		
		Under voltage protection recovery	Input current≥1A	
	ON	Over voltage warning	56.0V	Over voltage warning recovery - over voltage protection
Total voltage		Over voltage warning recovery	54.0V	53.0V - over voltage warning
warning	ON	Under voltage warning	46.4V	Under voltage protection - under voltage warning recovery
		Under voltage warning recovery	48.0V	Under voltage warning - 55.0V
Over voltage protection ON (total voltage)		Over voltage protection	57.6V	Over voltage warning - 60.0V
	ON	Over voltage protection recovery	54.0V	Over voltage warning recovery - over voltage protection
		Over voltage protection recovery conditions	<ol> <li>Individual cell voltage decrease to over voltage recovery threshold.</li> <li>The remaining capacity is lower than 96% of the intermittent power supply.</li> </ol>	
				tions should be_
			Output cur	rent≥1A
		Under voltage protection	41.6V	36.0V - under voltage warning recovery
Under voltage protection (total voltage)	ON	Under voltage protection recovery	46V	Under voltage protection - under voltage warning
		Under voltage protection condition	under volta threshold, communica	total voltage gets age protection BMS maintain ation with inverter ses and powered off.

		Under voltage protection recovery	Input curre	ent≥1A
		conditions High temperature warning (charging)	50°C	High temperature warning recovery - high temperature protection
		High temperature warning recovery (charging)	47°C	35°C - high temperature warning
		High temperature protection (charging)	55°C	High temperature protection recovery - 80°C
Cell		High temperature protection recovery (charging)	50°C	High temperature warning recovery - high temperature protection
(Charging)	mperature ON Charging)	Low temperature warning (charging)	2°C	Low temperature protection - low temperature warning recovery
		Low temperature warning recovery (charging)	5°C	Low temperature warning - 10°C
		Low temperature protection (charging)	- 10°C	-20°C - low temperature protection recovery
	Low temperature protection recovery (charging)	0°C	Low temperature protection - low temperature warning recovery	
		High temperature warning (discharge)	52°C	High temperature warning recovery - high temperature protection
Cell temperature (Discharging)		High temperature warning recovery (discharge)	47°C	High temperature protection recovery - 80°C
		High temperature protection (discharge)	55℃	High temperature warning recovery - high temperature protection

		High temperature protection recovery (discharge)	50°C	High temperature warning recovery - high temperature protection
		Low temperature warning (discharge)	- 10°C	Low temperature protection - low temperature warning recovery
		Low temperature warning recovery (discharge)	3°C	Low temperature warning - 10°C
		Low temperature protection (discharge)	- 15°C	-30°C - low temperature protection recovery
	Low temperature protection recovery (discharge)	٥°C	Low temperature protection - low temperature warning recovery	
	High temperature warning	50°C	High temperature warning recovery - high temperature protection	
		High temperature warning recovery	47°C	-20°C - high temperature warning recovery
		High temperature protection	60°C	High temperature protection recovery - 80°C
Ambient temperature	ON	High temperature protection recovery	55℃	High temperature warning recovery - high temperature protection
		Low temperature warning	0°C	Low temperature protection - low temperature warning recovery
		Low temperature warning recovery	3°C	Low temperature warning - 60°C
		Low temperature protection	- 10°C	-30°C - low temperature protection recovery

		Low temperature protection recovery	0℃	Low temperature protection - low temperature warning recovery
		High temperature warning	90°C	High temperature warning recovery - high temperature protection
PCB temperature	ON	High temperature warning recovery	85℃	60°C - high temperature warning
temperature		High temperature protection	100°C	High temperature warning - 120℃
		High temperature protection recovery	85°C	High temperature warning recovery - high temperature protection
Current limiting (charging) ON	OFF	Active current limiting		When the charger current > 10A, current limiting activated.
		Passive current limiting	10A	When the charger current > charging over current warning (configurable), current limiting activated.
	ON	Charging current limiting time delay	5 min	After the current limiting being activated, BMS re-check the current to judge whether to maintain current limiting.

Over current warning (charging)	ON	Over current warning Over current warning recovery	200A 195A	Charging over current warning recovery - charging over current protection OA - charging over current warning
		Tecovery		
		Over current protection Over current protection	210A	0A~150A
		time delay	10S	Configurable
Over current protection (charging)	ON	Over current protection recovery conditions	discharge o	) seconds, the recovers
Effective	Charging curre	ent (in)	1000mA	
charging current	Charging current (out)		700mA	
Over current warning	ON	Over current warning	-205A	Over current protection - over current warning recovery
(discharging)		Over current warning recovery	-203A	Over current warning - 0A
	-	Over current protection	-210A	Transient over current protection - 0A
Over current		Over current protection time delay	105	Configurable
protection (discharging)	ON	Over current protection recovery conditions	charge curi	) seconds, the recovers
Over current protection (Transient)	ON	Over current protection	-300A	Discharge over current protection - 300A

		Over current protection time delay	30mS Configurable
		Over current protection recovery	<ol> <li>BMS detects any input charge current.</li> <li>After 60 seconds, the protection recovers automatically.</li> </ol>
	OFF	Over current lock	<ol> <li>Continuously over current for</li> <li>times.</li> <li>The over current lock times exceeded.</li> </ol>
		Over current lock times	5 times
		Over current lock release	Connected with charger
		Short circuit protection current value and time delay	Programmed into the software (can not be edited)
Short circuit	ON (Cannot be turn off)	Short circuit protection recovery	<ol> <li>BMS detects any input charge current.</li> <li>After 60 seconds, the protection recovers automatically.</li> </ol>
protection		Short circuit protection lock	<ol> <li>Continuously short in the output circuit.</li> <li>The over current protection lock times exceeded.</li> </ol>
	ON	Short circuit protection lock times	5 times
		Short circuit protection lock release	Connected with charger
Effective	Discharge curr	ent (in)	- 1000mA
discharging current	Discharge current (out)		-700mA
Cell equalization	ON	Standby equalization	When there is no charging and discharging current flow, the standby equalization will be activated.
		Standby time	10 hours configurable

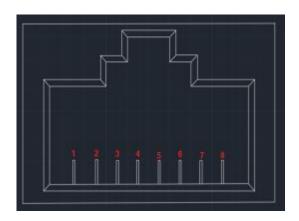
			When at the	e charging or float
	ON	Charging equalization	charging sta	tus, the charging
			equalization	will be activated.
	Equalization	Activate voltage	3350mV	
	Equalization	Activate voltage		Configurable
	activate	difference	30mV	Configurable
	condition	End voltage	20mV	
			According to	the temperature
		Temperature	range of no	equalization
			(ambient te	mperature)
	ON	No equalization high		
		temperature	50°C	Configurable
		No equalization low		Configurable
		temperature	0°C	
		Voltage difference	500mV	
Cell failure	ON	Voltage difference	222.14	Configurable
		recovery	300mV	
	Nominal capac	Nominal capacity		5-200Ah
			Calculated	
	Pompining con	acity	accordingly	Configurable
	Remaining cap	dully	to the cell	Configurable
			voltage	
Capacity	Cycle life accur	mulated capacity	200/	Cycle life
		mulated capacity	20%	(configurable)
		Remaining capacity	150/	
	ON	warning	15%	
		Remaining capacity	F.0/	Output current flow
	ON	protection	5%	will be cut off.
			When in the	e standby status,
			hold the res	et button for 1
Deset 1		t.a	second. The	BMS will be
Reset button	Power on/activ	late	activated. T	he LED indicators
			will be lighten in order. Then the	
			-	running status.
L	1			0

Power off/sleeping Power off/sleeping indicators order. The	andby or running ept for charging), eset button for 3 he BMS enters ode. The LED will be lighten in n the BMS enters ping status.	
	arging function will d once the BMS n	
BMC nower	Do not connected er, and no effective urrent )	
Start heating temperature 0°C Stop heating	– Configurable	
temperature 10°C		
Heating     OFF     and the ce       Heating function     reaches the       activation     heating function       Heating function     heating function	nected with charger, Il temperature e setting value, the nction activated. nction disabled when and discharge status.	
External OFF When at the standby status, the BMS on/off through external switches.	When at the standby status, the BMS can be powered on/off through external switches.	
LCD screen ON Monitoring software to check the ce temperature and current	l voltage,	
Charging activating ON Charging activating ON Charging activating ON CN Charging button for recovering from protection status and activate output current	Configurable	
Continuously Default	Battery connection wire compensating	
fault $10m\Omega$ value from the second s	impedance	
fault 10mΩ value from	impedance – Configurable	

#### 4. Communication

### 4.1 CAN communication

The battery pack supports CAN communication with inverters at the baud rate of 500K. The CAN communication interface applied 8C8P Ethernet port. The battery pack can transmit information with inverter or CAN TEST equipment through the CAN interface. The paralleled packs transmit information through RS485 interface, and then, the master pack gathering the system information, and transmit to inverter and PCS through CAN communication.

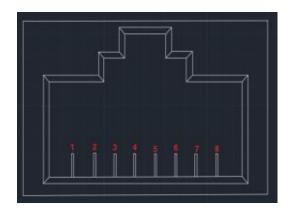


PIN	Definition
1/2/7/8	NC
4	CAN- L
5	CAN- H
3/6	GND

#### 4.2 RS485 communication

The battery pack supports RS485 communication at the baud rate of 19200bps. The RS485 communication interface applied 8C8P Ethernet port.

The pin definition as follows:



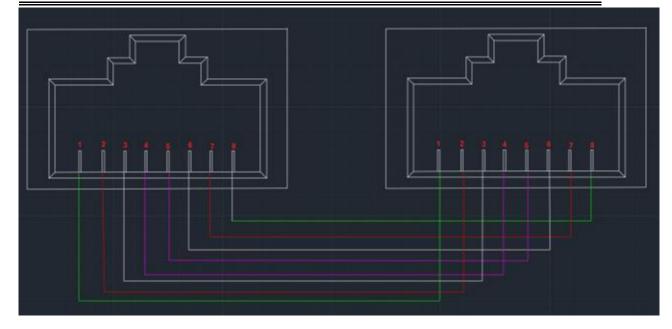
PIN	Definition			
1/8	RS485- B			
2/7	RS485-A			
3/6	GND			
4/5	NC			

## 4.3 Parallel communication

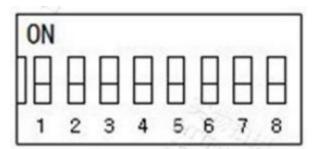
When connected in parallel, the paralleled battery packs communicate with each other through RS485 interface. Then the master packs gathering the information of the whole system, and communicate with inverter and other devices through CAN interface.

The RS485 interface is as follows:

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4.4 DIP address



- DIP address: when connected in parallel, DIP switches are applied for identification.
- DIP switch introduction: #1, #2, #3, #4 indicate the pack identity, from which 4 switches with Max. Of 16 different identifications. #5, #6, #7, #8 indicate the quantity of slave packs.
- Master pack settings: #1, #2, #3, #4 set off. #5, #6, #7, #8 accordingly to the quantity of slave packs.
- Slave pack settings: #1, #2, #3, #4 accordingly to the binary settings. And
   #5, #6, #7, #8 set off. (Check the appendix)

### 5. Working mode

### 5.1 Charging mode

When a charger was detected, and the charger voltage is 0.5V+ more than the battery voltage, BMS will turn on the charging MOSFET. And when the charging current reaches the effective charging current value, BMS enters charging mode. At charging mode, charging and discharging MOSFET are both turned on.

## 5.2 Discharging mode

When a loads was detected, and the discharging current reaches the effective charging current value, BMS enters discharging mode.

### 5.3 Standby mode

When the BMS not in charging mode, nor discharging mode, it enters standby mode.

## 5.4 Power off mode

When the battery standby for 48 hours, and the battery is in under voltage protection status, or to press the reset/external switches, then the BMS will enter power off mode.

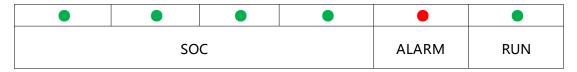
## 6. LED indicator

## 6.1 LED lights

One running indicator (Green)

one warning indicator (Red)

## and four capacity indicator (Green)



# 6.2 Capacity indicator

Status		Char	ging		Discharging			
Capacity	L4	L3	L2●	L1 🔵	L4	L3	L2	L1 •
0-25%	OFF	OFF	OFF	Blink	OFF	OFF	OFF	Green
25%-50%	OFF	OFF	Blink	Green	OFF	OFF	Green	Green
50%-75%	OFF	Blink	Green	Green	OFF	Green	Green	Green
≥75%	Blink	Green	Green	Green	Green	Green	Green	Green
Running	Green					Bli	ink	

# 6.3 Lights blink

Blink Type	Lighten TIEM	OFF TIME
Blink A	0.255	3.75S
Blink B	0.55	0.55
Blink C	0.5S	1.55

SYSTEM	RUNNING	RUN	ALM		SC	С		REMARK
STSTEIVI	KUNINING	•	•	•	•	•	•	KEIVIAKK
OFF	SLEEPING	OFF	OFF	OFF	OFF	OFF	OFF	OFF
STANDBY	RUNNING	Blink A	OFF	OFF	OFF	OFF	OFF	Standby
	RUNNING	Green	OFF	Accorc	-	the rem acity	aining	LED Blink B
	Over current warning	Green	Blink B	Accorc	-	the rem acity	aining	LED Blink B
CHARGE	Over voltage protection	Blink A	OFF	OFF	OFF	OFF	OFF	
	Temp. And over current protection	Blink A	Blink A	OFF	OFF	OFF	OFF	
	RUNNING	Blink C	OFF	Accord	ling to '	aining		
	warning	Blink C	Blink C	According to the remaining capacity		annig		
DISCHARG E	Temp. Over current, short circuit protection	OFF	RED	OFF	OFF	OFF	OFF	
	Under voltage protection	OFF	OFF	OFF	OFF	OFF	OFF	No discharge

## 6.4 Status indicator

## 7. Installation

# 7.1 Packing list

Items	QTY	Picture
51.2V 200Ah PANAMA Battery Pack	1 PCS	
PANAMA Stand	1PCS	
Wall Mount anchor	4PCS	
Wall Mount Bracket A	2PCS	
Wall Mount Bracket B	1PCS	0 0
Wall Mount Bracket C	1PCS	0

## 7.2 Installation

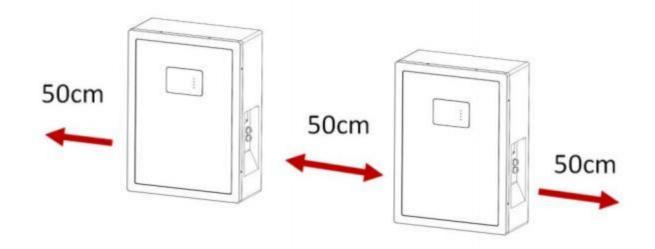
## 7.2.1 Battery status



7.2.2 Installation position

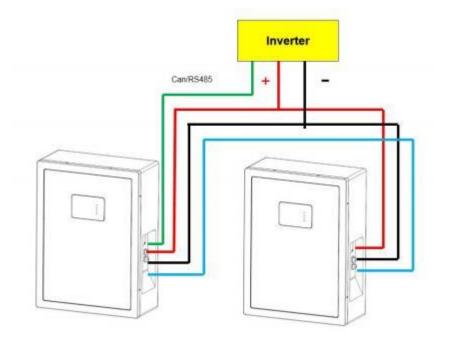
- Keep the battery pack away from flammable material wall.
- Adjust the height of the before formal installation to ensure the screen at the eyesight.
- Keep the ambient temperature between 10-30 °C to ensure the best permanence of battery pack.

- Leave some room for heat dissipation. For concrete wall, please refer to the following picture.
- Mark the screw hole position before drill holes on the wall. And keep the anchor 10 degrees upper in case the anchor fallen off.



7.2.3 Wiring

Power off the battery pack before formal installation.



# 8. Packing

Small wooden box:

Dimension: L 115cm\*W 81cm\*H 400cm

Weight: 140KG

Capacity: 1 unit



Big wooden box:

Dimension: L 1.2m\*W 0.9m\*H 1.1m

Weight: 430Kg

Capacity: 3 unit



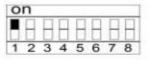
#### 9. Safety precautions

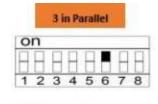
- Do not use the pack if there' s any deformation.
- Do not stack up the battery.
- Do not reverse the P +, P- terminals of the battery pack.
- Do not let the tools and devices get direct contact with battery terminals.
- Keep the battery away from flammable obstacles. And keep the environment dry and ventilate.
- Do not open the battery pack. Or SEPLOS will not take any responsibility that may cause.
- Do not disconnect the battery terminals when its running.
- Please fully charge a new battery pack, or a long-time-no-use battery pack with a designed charger.
- Do not open, crush, bend or pierce the battery pack.
- Do not immerse the battery into any water, sea water, or drinks and other liquids.
- Do not short circuit the battery pack.
- Keep the battery pack away from explosive obstacles.
- Do not throw take apart the battery pack, or throw it to the fire, or there will be chances of a fire disaster.
- If there's any signs of Electrolyte leakage, do not let it get any direct contact with your bare skin.

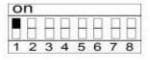
# Appendix - DIP Address Setup

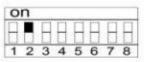
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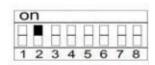








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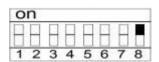
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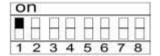
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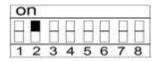
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on 1 2 0n	3 4	5	6	7	8
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	3 4	5	6	7	8
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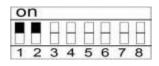
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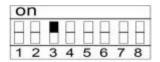
#### 9 in Parallel

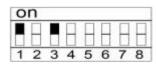


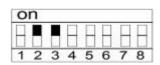


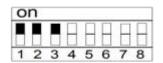




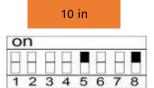


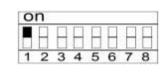


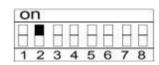


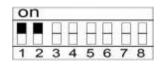


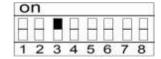
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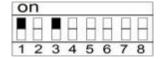


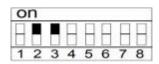




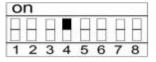


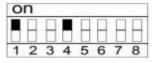


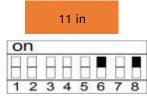


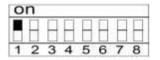


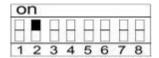


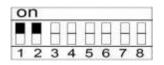


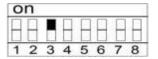




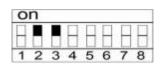


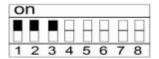


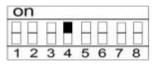


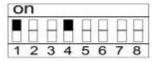


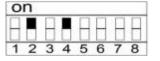
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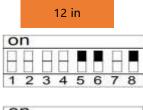


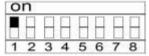


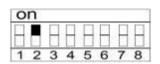


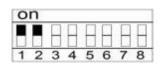








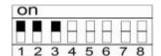


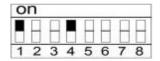


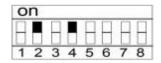
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