



SPDU2100 User Manual



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I . Introduction

1. SPDU--- Sequential Controlling Power Distribution Unit is an intelligent product developed and produced by CLEVER.
2. According to customer's set of the power on/off sequence and the interval time, SPDU can realize the sequential power on/off which can avoid the instantaneous power resulting from the current shock when many equipments power on/off simultaneously and can meet the technical requirement of the system operation.

II . Function description

1. Sequential power on/off

With the buttons, customer can set the outlets to sequential power on/off to avoid the error, interference among equipments and power system pollution resulting from the transient current attack when many types of equipment turn on/off at the same time.

2. Sequential power on/off in groups

With the buttons, customer can group the outlets and let them power on/off in groups.

3. Configure the interval time

With the buttons, customer can set the interval time of power on/off of several equipments conveniently.

4. Controlling power on/off state of outlets

With the buttons, customer can set the power on/off state of individual outlet.

5. Dynamic adjusting/controlling function

According to the technical requirement, customer can adjust the on/off state of individual outlet or group outlets at times without affecting the normal operating state.

6. Start/Stop delay function

With the start/stop delay button, customer can operate safely and accurately.

7. Immediate cut off function

Specially designed switch can cut off the power when the equipment is wrongly operated.

8. Display the load current and voltage

Digital AC ammeter and voltage meter can accurately display the load current and voltage and their changes.

9. Display the output state

The LED can clearly display the SPDU operating state.

10. Socket with anti-fall device

IEC320 C13 with anti-fall device makes the plug fixed and not easy to fall down.



III. Applicable scopes

1. SPDU series products can be applied to server cabinet, network cabinet and so on.
2. Customers can choose the outlet standard and quantity according to their requirement.
3. SPDU series products are in accord with the RoHS directive and are suitable to 220/110VAC power voltage.

IV. Installation method

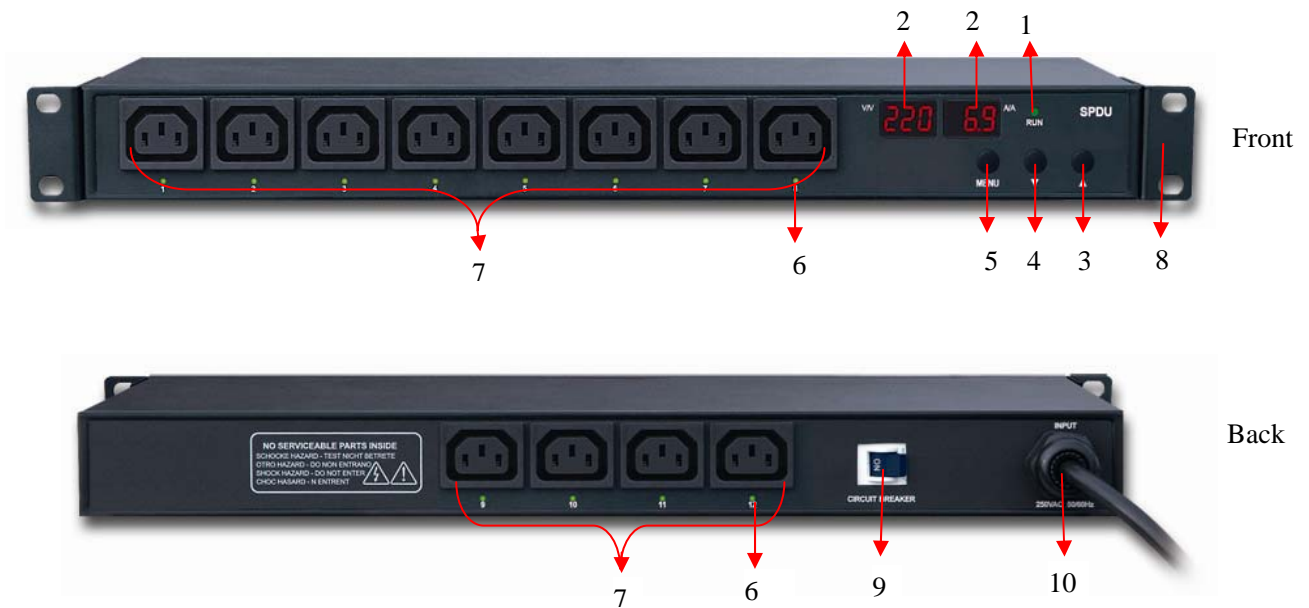
Horizontal installation.

V. Performance parameters

Item		Basic description	
Input	Rating input voltage	125/250VAC 50/60HZ;	
	Max. Load current	16A/32 A	
	Cable specification	3× 2.5 mm ² ×3M , 3× 6.0 mm ² ×3M	
	Input standard	IEC60309 industrial plug/IP4	
Output	Socket standard	IEC320 C13, C19, MEMA 5-15R, NEMA 5-20R	
	Output quantity	8 way, 12 way	
	Rating output current	10A	
	Max. Output current	16A/ 32A	
Display	Digital AC ammeter	Digital display	LED nixie tube, 3 numbers in red
		Accuracy	±1%+1
		Resolution	100mA
	Digital AC voltage meter	Digital display	LED nixie tube, 3 numbers in red
		Accuracy	±1%+1
		Resolution	1V
Product specification	Dimension	L×W×H = 482.6mm×216mm×44.8mm	
	Mounting hole	465mm	
	Weight	Y1	
	Power consumption	2~6W	
	Case color	black	
ROHS		Yes	
Working environment	Temperature	0°C-55°C ;	
	Relative humidity	10-90% ;	

Y1: Product weight is determined by the outlet quantity.

VI. Product chart



Instruction:

1. RUN: flashes when SPDU is in normal operation
2. Digital display tube: displays the load current and voltage
3. \triangle button: move forward
4. ∇ button: move back
5. MENU: functional button
6. Outlet indicator
7. Outlets
8. Mounting bracket
9. Overload protection
10. Cable input hole

VII. Operating instruction

1. Setting instruction

1. 1. Insert the SPDU plug to the socket, press “MENU” button and then turn on the power to enter into the setting mode. RUN indicator flashes slowly (about every 4s). 20s without operation will return to the main interface. At this time, press “MENU” to enter the operating menu again. In the mode, none outlet electrified.

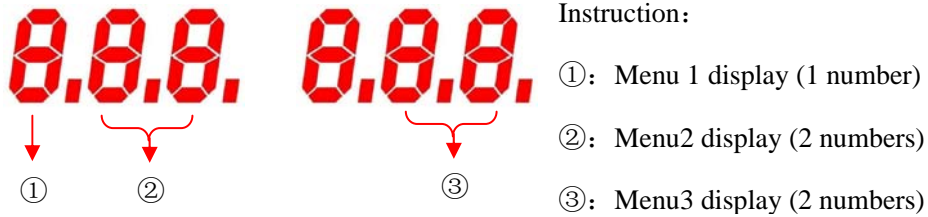
1. 1. 1. Button functions

MENU: enter the nest menu, select or back to the former menu

\triangle : Move forward

∇ : Move back

1. 1. 2. Display instruction:



1. 2. Group setting

1. 2. 1. The outlets of SPDU can set 4 groups

1. 2. 2. In menu 1, select 1, press “MENU” to enter menu 2, select the outlets to be grouped, and press “MENU” to enter menu 3(select “00” and press “MENU” can return to the former menu), menu 3 now displays the outlets not grouped. Press “△” or “▽” to select the outlet and then press “MENU” to add it in the group. To return the former menu, select “00” and press “MENU”. In case wrongly operated, customer can recover to the factory default.

1. 3. Group check

In menu 1, select 2 to enter menu 2, select the group to check, and press “MENU” to enter menu 3, press “△” or “▽” to check all the outlet in this group.

1. 4. Select the outlets

In menu 1, select 3 to enter menu 2, press “△” or “▽” to select the outlets. At the same time, menu 3 displays the corresponding state of the outlet (1: on when electrify; 0: off when electrify). If need to modify, press “MENU” to enter menu 3 to do.

1. 5. Set the interval time

In menu 1, select 4, menu 2 displays the interval time at the present. Press “△” or “▽” to set the interval time and then press “MENU” to save. The interval time should be 0-15 seconds.

1. 6. Recover to factory default

In menu 1, select 5 to enter menu 2, press “MENU” to select (00: back; 01: recover to factory default). When select to recover the factory default, the digital panel lights. When the recover finishes, the system will automatically retrieve from the menu.

2. Electrify SPDU

Insert SPDU plug into the socket and turn on the power, the RUN indicator flashes quickly and the digital display panel lights, SPDU goes into the starting procedure now. The outlets (in group) will power on sequentially according to the former setting. When the power on of the outlets finish, the RUN indicator flashes slowly (about every 2S). And the digital display panel will show the present load current and voltage.



2. 1. Start/Stop SPDU when the main power electrified

Press “MENU” for 3S to start the stopping function, if succeed (RUN indicator flashes quickly), move away your finger to enter the stopping procedure. The outlets will power off sequentially, and the RUN indicator flashes slowly (about every 4S). If need to start again, press “MENU” for 3S to start the starting function, if succeed (RUN indicator flashes quickly), move away your finger to enter the starting procedure. The outlets will power on sequentially, and the RUN indicator flashes slowly (about every 2S)

2. 2. Start/Stop the outlet (effective when the starting procedure performs)

Press “MENU”, select 3 in menu 1 to enter menu 2, select the outlets to start/stop and press “MENU” to enter menu 3. After the set, press “MENU” to save. Then the outlet will start/stop accordingly.

Attention: Do the above operation after the SPDU stopping procedure finishes, customer can only modify the power on/off state value of the outlet when restarting the SPDU (the function is the same with the statement in 1.4)

2. 3. Group and check the outlets after electrify the SPDU

The same with the statement in 1.2 and 1.3

2. 4. Set the interval time after electrify the SPDU

The same with the statement in 1.5

3. Power off in urgent situation

In urgent situation, turn off power switch on the SPDU to cut off the power.

4. Attention

Please turn off the outlets before insert or pull the equipment plugs.

VIII. Fittings list

1. Bolt M6 4PCS
2. Nut M6 4PCS
3. User manual CD 1PC

IX. Quality warranty

We guarantee to repair the product for two years. During the period, our obligation is limited to replace or repair it. The repair is generally free during the two-year’s period. If the product has beyond the guaranteed time or the fault arises from customer’s incorrect operation, some amount of money should be paid.

The above warranty does not apply to the following situation:

1. The damage caused by customers’ incorrect or inadequate repair;
2. The damage caused by unauthorized modification or misusing;



3. The damage caused by using out of the product allowed environment.

Repairing Notice:

1. If you want to return the product for repair, please make sure it packed in the bandbox or carton. The damage caused during the transportation is not warranted to repair.
2. Please give a brief description of the repairing product about the problem and its operating process.
3. The customer should pay for the returning freight, all the tariffs and taxes.
4. Please write down your name, address and the telephone number by which we can contact you at anytime.