PS8 – 17
- 17: Design number
- PS8: PS8 Series

Applications

- Equipped with overvoltage and undervoltage protection function, it can be connected to two power sources and automatically switch between the main power source and the backup power source.

Feature

- Voltage/Current monitoring and protection.
- Over / under voltage value can be set.
- Priority phase can be set.
- Digital display voltage, fault status can be displayed by LED.
- DIN rail mounting.

Technical parameters

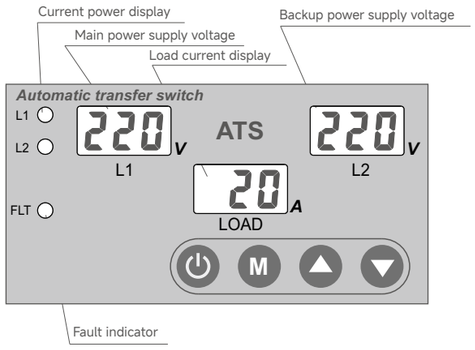
	PS8-17
Function	Automatic transfer switch
Rated supply voltage	AC220V(L1-N1,L2-N2)
Rated supply frequency	45~65Hz
Operation voltage range	80V~400V(L1-N1,L2-N2)
Rated operational current	63A,80A（AC1)
Burden	AC max.3VA
Over voltage operation value	OFF,230V~300V
Under voltage operation value	140V~210V,OFF
Over/under voltage action delay	0.1s~10s
Over current operation value	1A~63A,80A
Over current action delay	2s~600s
Power-up delay	2~600s
Reset time	2~900s
Switching time	0~900s
Measurement error	≤1%
Electrical life(AC1)	1×10^4
Mechanical life	1×10^6
Operating temperature	-20°C ~ +60°C
Storage temperature	-35°C ~ +75°C
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage cathegory	III
Pollution degree	2
Dimensions	82×72×68mm
Weight	280g

Factory settings

Parameter	Range	Step value	Factory settings
Over voltage value	OFF,230V~300V	1V	275V
Over voltage recovery value	225V~295V	1V	265V
Under voltage value	140V~210V,OFF	1V	175V
Under voltage recovery value	145V~215V	1V	180V
Voltage fault action time	0.1s~10s	0.1s	0.5s
Over current value	OFF,1A~63A	0.1A	60A,80A
Over current action delay	2s~600s	1s	5s
Power on delay time	2s~600s	1s	5s
Reset time	2s~900s	1s	10s
Switching time	0s~900s	-	0s
Fault reset	ON-OFF	-	ON
Priority phase	L1-L2-AUTO	-	L1



Panel Diagram



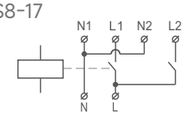
⏻	1.It can be used to manually turn on or off the load.
M	Press and hold the setting key for 3 seconds to enter the setting. After modifying the setting, press and hold for 3 seconds to save the setting.
▲	Used to increase the value when setting parameters.
▼	Used to reduce the value when setting parameters.

LED status	LED:L1/L2 ○
———	This phase is not selected
▬▬	This phase has been selected
▮▮▮	Voltage fault recovery delay in progress

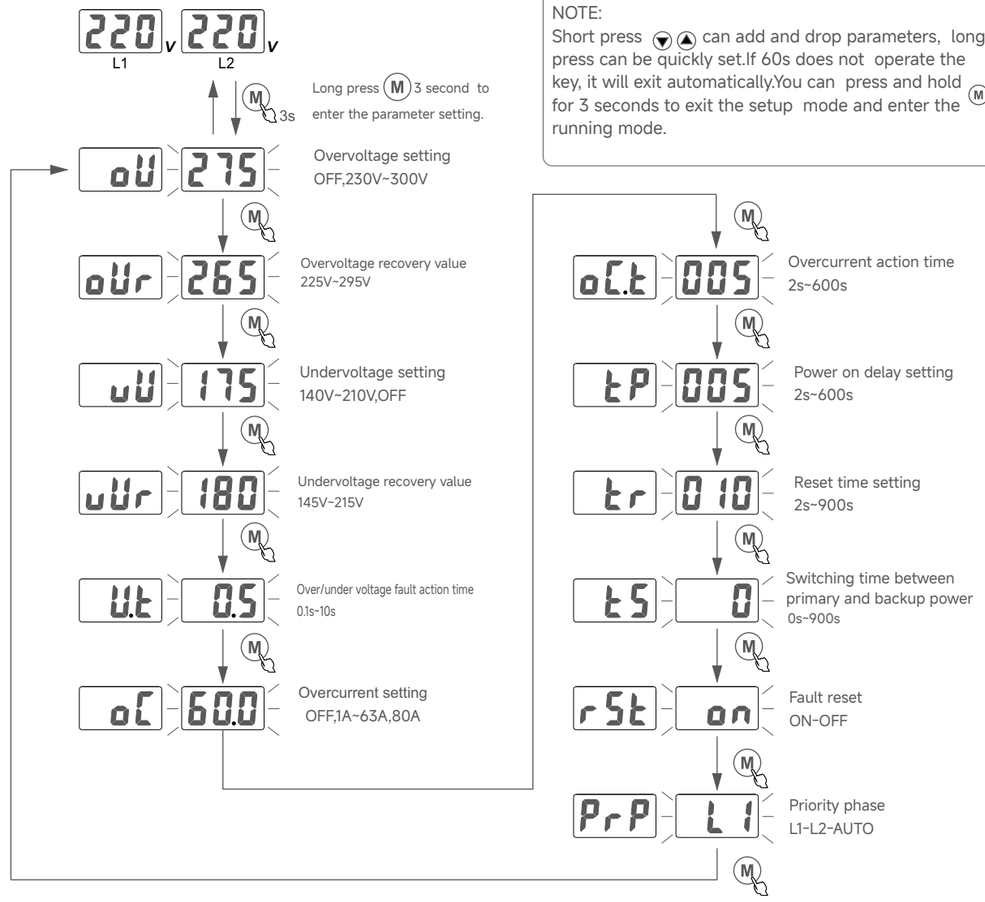
LED status	LED:FLT ○
———	Voltage is normal
▬▬	L1, L2voltage are all faulty
▮▮▮	Contact disconnection fault

Wiring Diagram

PS8-17



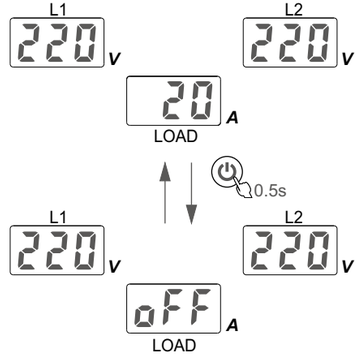
Parameter setting



NOTE:
Short press ▼▲ can add and drop parameters, long press can be quickly set.If 60s does not operate the key, it will exit automatically.You can press and hold for 3 seconds to exit the setup mode and enter the running mode.

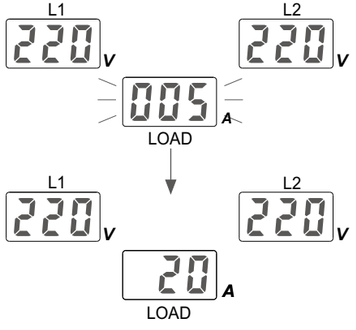
Open and close manually

Under normal operation, the load can be switched on or off manually by pressing the power key for 0.5 seconds.



Power-on and reset delay

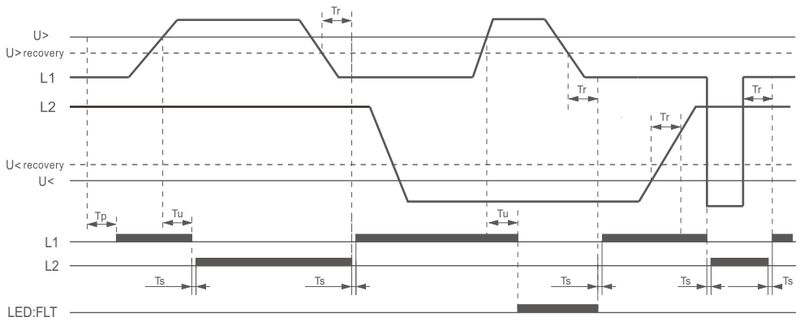
During the power-on and fault reset of the product, the product will count down and display according to the set delay time, and will enter the running statewhen the countdown ends.



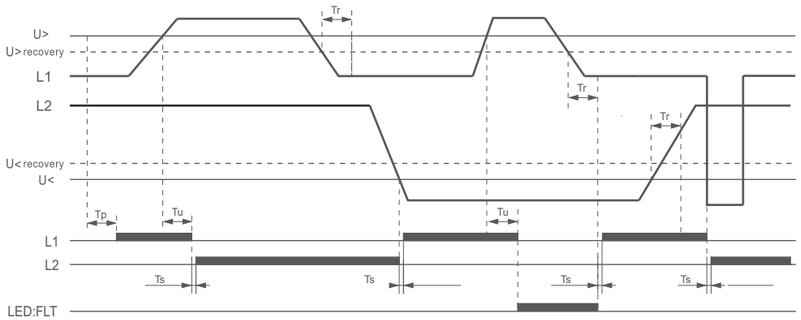
Functions Diagram

The input of this product is L1-N1, L2-N2, and the output is L-N.
The priority phase of the product can be set, for example, if the priority phase is set to L1, the product will automatically select L1 as the input first. In any case, if only L1 is normal, it will automatically switch to L1. If the priority phase is set to AUTO, the product will automatically select the voltage normal phase as the input.
You can understand the working logic of the product through the following functional diagrams.

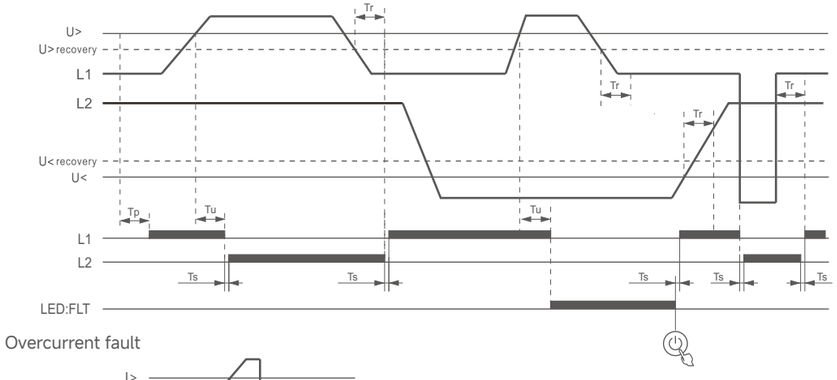
Fault reset:ON , Priority phase:L1



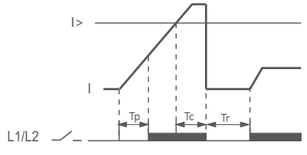
Fault reset:ON , Priority phase:AUTO



Fault reset:OFF , Priority phase:L1



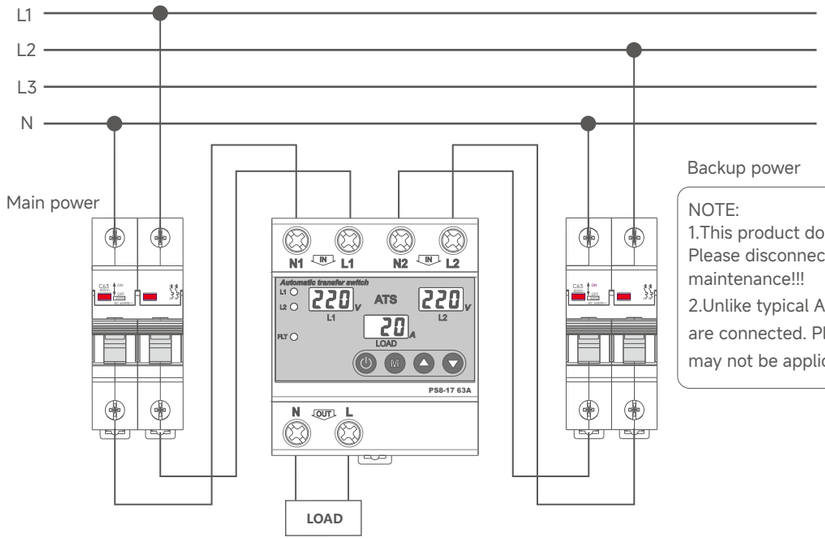
Overcurrent fault



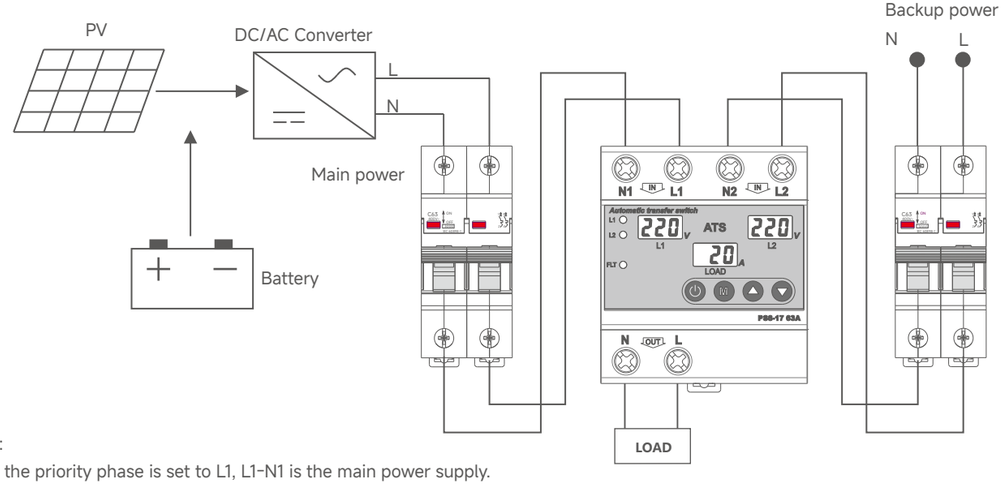
Tp: Power-up delay(2~600s)
Tr: Reset delay time(2~900s)
Tu: Over/under voltage fault action time(0.1~10s)
Tc: Overcurrent fault action time(2~600s)
Ts: Switching time(0~900s)

NOTE:
When the switching time is set to 0, the actual switching time is about 0.2 seconds.

Example



NOTE:
1.This product does not have isolation function. Please disconnect the superior MCB during maintenance!!!
2.Unlike typical ATS, the N1 and N2 of this product are connected. Please note this feature as it may not be applicable in some scenarios.



NOTE:
When the priority phase is set to L1, L1-N1 is the main power supply.

Dimensions(mm)

