

The user manual for FUSP-AS/AL Series Switch Power

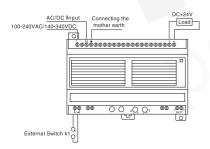


2.Remote Control

Attn: Externally-Connect the switch terminal,remote the switch to control output voltage having or non-having

Operation steps:

- Remove the short circuit block from the switch terminal and replace it with a switch k1
- 2. Adjusting potentiometer (A) and rotate it to the end clockwise
- 3, Connect the power (100-240VAC/140-340VDC)
- Adjust potentiometer(V) to make the voltage of the output terminal be +24VDC(Close the switch k1)
- 5. Load (the working current ≤3A)
- 6. Close the switch k1,no voltage output



(Fig.3.2 Remote Control application)

I. Introduction and Installtion Dimensions

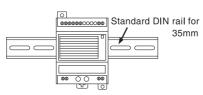
The FUSP-AS/AL Series Switch Power have many features: being mini-sized, light weight, high efficiency, good reliability and so on. In special, it has the remote control and UPS function.

FUSP-AS Series: FUSP-30-5AS (5V/6A)

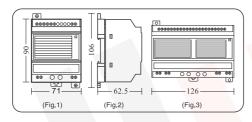
FUSP-36-12AS (12V/3A) FUSP-36-24AS (24V/1,5A)

71mm x 106mm x 65mm

FUSP-AL Series: FUSP-50-5AL (5V/10A) FUSP-72-12AL (12V/6A) FUSP-72-24AL (24V/3A) 126mm x 106mm x 65mm

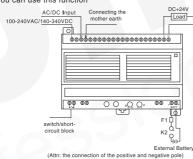


(can be used DIN rail installed)



3.Using UPS Function

Attn: If the load can provide with UPS voltage methods, then you can use this function



(Fig.3.3 UPS application

Operation Steps:

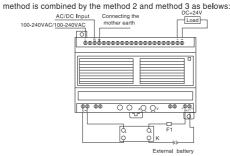
- Twist firmly the short circuit block of the switch terminal (If the switch / short-circuit block is off,the switch power have no output).
- 2. Adjusting potentiometer (A) and rotate it to the end clockwise
- 3, Connect the power (100-240VAC/140-340VDC)
- Adjusting potentiometer(V) to make the voltage of the output terminal be +24VDC(Due to SP-12AS/AL to make the output voltage be 12V)
- 5. Disconnect the AC/DC power wire
- Connect the switch and fuse wire and the battery according to the positive pole and negative pole marked on the crust

∏. Features

- 1. EMI filter condenser
- 2. Input frequency: 47-63Hz
- 3. Output voltage stability: ±0.5%
- 4、 Can be used for DIN rail mounting (EN50022-35)
- Wide range voltage input (100-240VAC/140-340VDC)
 Ripple voltage tolerance range(85-264VAC/120 -370VDC)
- Output voltage fine adjustment range (-5% ~ +10%, adjusting potentiometer V)
- 8. Have the function of soft-start (to limit the peak current of start and the pressure of the voltage to the components)
- The current of the load can be roughly adjusted (Means the maximum protective current of the load, adjusting potentiometer A)
- 10, Effective: >75%
- 11, Insulation voltage endurance: >1.5KV
- 12. Power supply output with the LED indicator
- 13、Ripple: ≤150mVp-p
- 14. Have the short circuit and over-load protection(short circuit protection means miss-connect the output voltage in short ,after disconnect,the output will be renew. Over-load protection: 105%-135%.)
- 15. With the UPS function.(External-connected battery, provide with the UPS by the power supply and the battery)
- 16. With the remote control function (By the switch control the having and non-having of the output voltage)
- 17. With the over heat protection function (the main control CMOS chip stops output when the temperature is beyond 135°C and the output will renew automatically when the temperature reduces)
- 7. Connect the power (100-240VAC/140-340VDC)(If the battery voltage is over +24V,you need to adjust potentiometer(V)to make it over battery voltage, the adjustable voltage is not exceed 26.5V)
- 1. At this time the main output voltage is provided by load: BATT port charges the accumulator battery by the switch k2 and fuse wire F1; If there is no AC/DC voltage input, battery power supply the load by the internal circuit, the Maximum working current ≤3A
- 2. At this time the main output voltage provided by load is more 24V.

4.Using Remote Control and UPS simultaneously

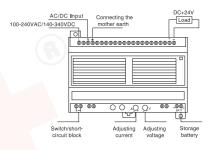
Attn: Using remote control and UPS simultaneously, the using



(Attn: the connection of the positive and negative pole)
(Fig3.4: Using Remote and UPS simultaneously application)

II. Using Methods

1.General operation



(Fig.3.1 General application)

Operation Steps:

- Twist firmly the short-circuit block of the switch terminal (If the switch / short-circuit is off,the switch power have no output)
- 2. Adjusting potentiometer (A) and rotate it to the end clockwise
- 3, Connect the power (100-240VAC/140-340VDC)
- Adjusting potentiometer(V) to make the voltage of the output terminal be +24VDC
- Connect the load in the output terminal (pay attention to the straight polarity and the negative polarity and that the maximum working current must be ≤ 3A)

5.Specification

Type	FUSP-30-5AS	FUSP-36-12AS	FUSP-36-24AS	FUSP-50-5AL	FUSP-72-12AL	FUSP-72-24AL
Voltage	5V	12V	24V	5V	12V	24V
Current	6A	зА	1.5A	10A	6A	ЗА
Dimension (WxHxD)	71mmx106mmx65mm			126mmx106mmx65mm		
Gamut voltage	100-240VAC/140-340VDC					
Ripple voltage tolerance range	85-264VAC/120-370VDC					
Input frequency	47-63Hz					
Output voltage Stabillity	≤ ±0.5%					
Ripple	≤ 150mVp-p					
Operation Temperature	-25℃~ +70℃					
Efficiency	>75%					
MTBF	432.1Khrs min. MIL-HDBK-217F (25°)					