

# **SPS-8040/SPS-8041/SPS-8042 SWITCH MODE POWER SUPPLY**

## **USER'S MANUAL**

### **INTRODUCTION**

The SPS-8040/SPS-8041/SPS-8042 Switching Mode DC Power Supply can provide relative large power output with its mini size and lightweight with its characteristic of high efficiency.

SPS-8040 has only one 12V DC output.

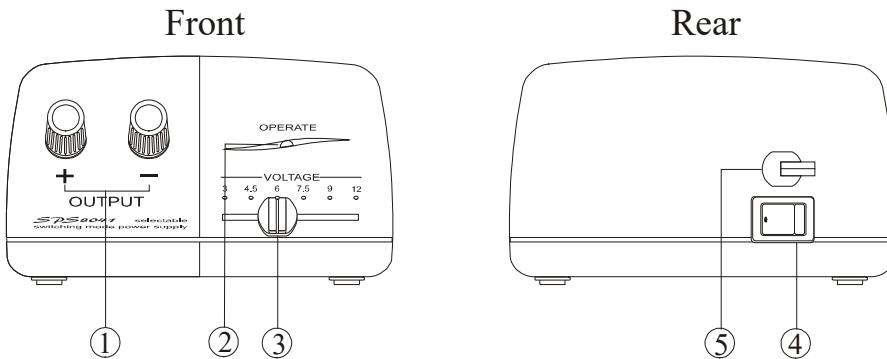
SPS-8041 provides 3V, 4.5V, 6V, 7.5V, 9V, 12V selectable DC output.

SPS-8042 has only one 13.8V DC output.

### **FEATURES**

1. Lightweight and Small Size: Switching mode power supply has the advantages of lightweight and small size. Comparing with linear mode power with the same power output, it is much lighter and smaller.
2. High Efficiency: The unit is operated with efficiency over 80% under the best condition.
3. Overload Protection: The current foldback circuitry is adopted to prevent from overload. The power indicator will become dimmer when the unit is overloaded.
4. Adjustable Voltage Output (For 8041 only): 3V, 4.5V, 6V, 7.5V, 9V and 12V selectable DC output.

### **PANEL DESCRIPTION**



- |                            |                    |
|----------------------------|--------------------|
| 1. Output Terminal         | 2. Power Indicator |
| 3. Output Voltage Selector | 4. On/Off Switch   |
| 5. Power Cord              |                    |

*Note: SPS-8040 / SPS-8042 has no Output Voltage Selector.*

### **INSTALLATION**

1. This unit is for indoor use only.
2. Place the unit in a location where allows free air circulation.
3. **DO NOT** place the unit close to the TV sets or CRT monitor.

### **CAUTION**

1. **DO NOT** use the unit for the equipment requiring higher current input than the designed value otherwise damages the unit.
2. **DO NOT** use the unit for the lamps or motorized equipment, which require high current input at starting and it may damage the unit.

## **SAFETY PRECAUTIONS**

1. **NEVER** touch the unit when your hands are wet.
2. **NEVER** operate the unit if foreign materials such as metallic objects, water, or other debris have fallen inside. Contact your dealer for check and repair.
3. **NEVER** operate the unit that has been damaged, as the voltage regulation circuitry may have been disabled. The resulting high voltage could damage your equipment.
4. **NEVER** attempt to repair the power supply. Incorrect re-assembly may result in a risk of electric shock or fire.

## **CONNECTION AND OPERATION**

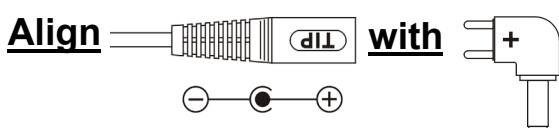
1. Make sure the AC power source as in the rating label and plug it in the AC outlet.
2. Turn ON the unit and adjust the output voltage to match with the input voltage of the equipment. Then turn OFF the unit.
3. Connect the equipment to the unit; the Red (+) terminal to the positive polarity input of the equipment and the Black (-) terminal to the negative polarity input of the equipment.
4. First turn ON the unit and then turn on the equipment.
5. When an operation is finished, turn off the equipment first and then turn OFF the unit.

*Note : When using the 7 common detachable plugs and polarity reversible master plug cable(optional accessories), check that the input of the equipment is center positive or center negative.*

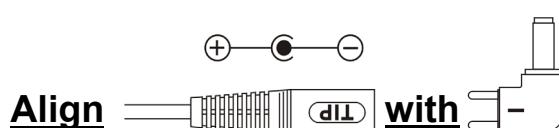
### **Setting the polarity for the output plug**

- There is only one engraved marking on the cable with polarity reversible master plug it is
- Each of the supplied output plugs has two engraved markings , + and – sign just above the pins.

#### **FOR CENTER POSITIVE SET UP**



#### **FOR CENTER NEGATIVE SET UP**



## **SPECIFICATIONS**

	SPS-8040	SPS-8041	SPS-8042
OUTPUT VOLTAGE:	12V dc	3,4,5,6,7,5,9,12V dc Selectable	13.8V dc
OUTPUT CURRENT:		3A	
RIPPLE AND NOISE:		60 mV (p-p)	
LINE REGULATION:		60 mV ( $\pm 5\%$ Variation)	
LOAD REGULATION:		300 mV (0~100% Load)	
POWER SOURCE:		230Vac/50Hz~ (or On Request)	
DIMENSION (W×H×D):		90 × 55 × 135 (mm)	
CE APPROVAL:		EN62368-1, EN55032	
OPTIONAL ACCESSORIES:	Connection cable with Crocodile Clips, Connection cable with polarity reversible master plug and 7 common detachable plugs		
WEIGHT:	Approx. 500g		