

Electronic Lock Power Supply

SMPS1260



KEYKING GROUP



Index

Chapter one: Summarize	2
1.1 Brief Introduction.....	2
1.2 Main Parameters	3
Chapter Two: SMPS1260 Specification	4
2.1. SMPS1260 Specification	4
2.2. SMPS1260 Function	5
Chapter Three: Installation Procedures	7
3.1 Fixing Into Metal Box.....	7
3.2 Precautions	9

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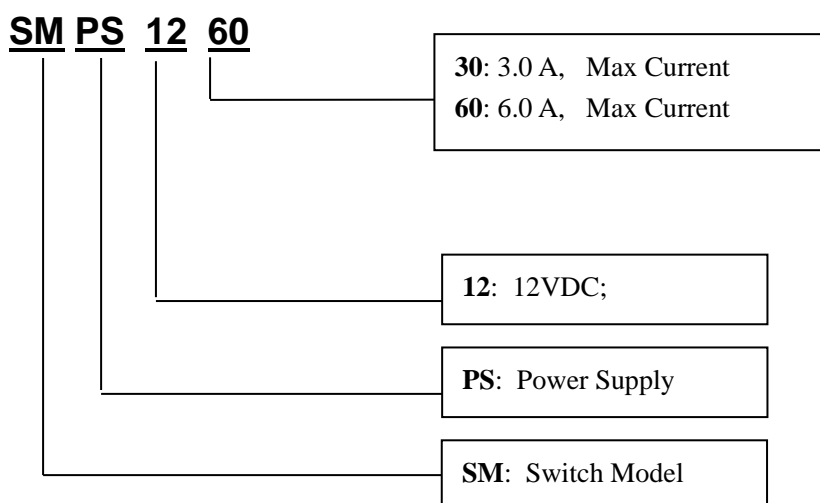
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Chapter one: Summarize

1.1 Brief Introduction

SMPS1260 is an input voltage of 100-240V, output current 12VDC/6A Switching Power Supply, input with a reliable anti-surge, lightning, overcurrent protection circuit; 12VDC including 5 groups output, each group comes with self-recovery insurance, can guarantee a reliable running when one group encounter overcurrent or short circuit, overcurrent fault, does not affect other group output; and extra group is 13.8V/300mA battery float voltage output for maximum battery backup 12V/7AH charge; city power and battery backup is seamless handover, ensuring the system can continue to use simultaneously when city power cut off. At the same time, provide a reliable power supply protection circuit to prevent battery discharge, when the backup battery voltage is lower than 10.8V, output will cut off automatically.

Model definition:



1.2 Main Parameters

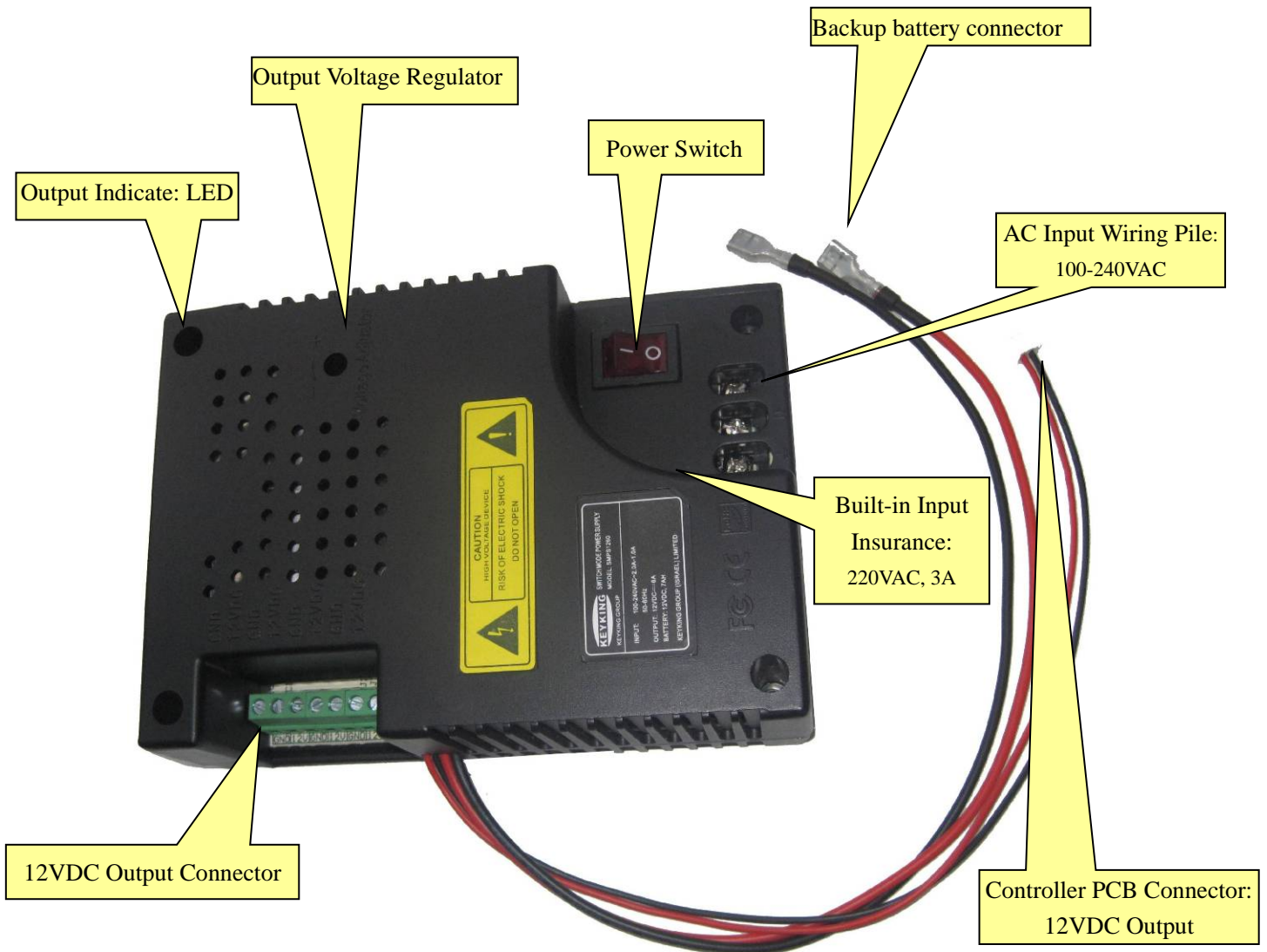
Technical Parameters:

- Input Voltage: 100-240VAC
- Output Voltage: 9-16VDC,
- Output Current: Single Line: 1.35A, Total Output: 6A
- Demension: 110.5mm (W) x 152mm (H) x 45mm (D)



Chapter Two: SMPS1260 Specification

2.1. SMPS1260 Specification

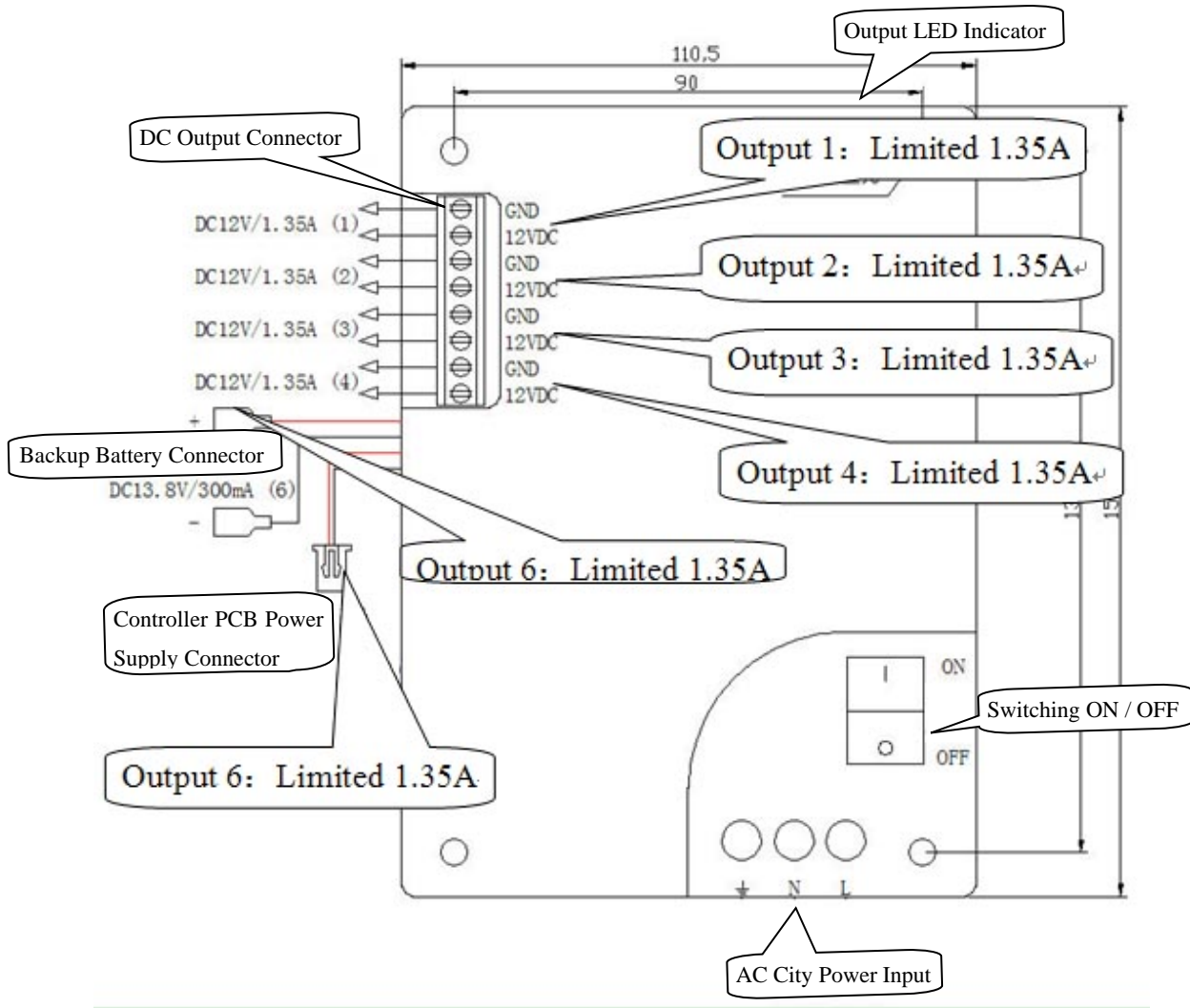


2.2. SMPS1260 Function

- AC input wiring pile : Input Range 100V-240VAC, access to 220V city power .L: connected Live Line, N: Neutral line , \equiv : Ground wire.
- Power switch: On / Off power AC input, there is a red light indication of energized condition when switch turn on.
- Output indicator LED: Power LED lights up when there is output.
- AC input fuse: fuse can be replaced when it is burned, specifications for 250V/3.15A.
- DC output Insurance: auto-recovery fuse, no need to replace (automatic protection and recovery), specifications is 25V / 1.35A.
- DC output voltage regulator: regulate the output voltage, adjustable range of 9-16V.
- 12VDC output connector (green connector): A total of four groups, each group rated output 12V/1.35A.
- Controller PCB connector: standard 2.54mm pitch connectors, which can be plugged directly into the controller PCB power supply port , rated output 12V/1.35A.
- Backup battery connector: (1) battery connector is output 13.8V/300mA float when there is city power ,will switch to the backup battery output when encounter city power cut off.(2) battery output will cut off, when the backup battery voltage is lower than 10.8V,protection of the battery from over-discharge.
- SMPS1260 total of six outputs, one group is backup battery interface, the other 5 groups are 12V DC outputs.
- Each group of 12V DC output individually equipped with self-resetting fuse, limiting each group rated output is 1.35A. If the connected load (for example, two-door magnetic lock MLSH01 * 2) the required current is more than 1.35A, the output of the fuse will automatically enable protection, thereby disconnecting the output, and will not affecting the other outputs (other output normal). In most cases, when the load returns to less than 1.35A, the output is restored to normal. Special circumstances, need to re-start power supply, the

disconnected group will return to normal.

- If the load current is close to or exceeds the rated current of 1.35A, connect two or more groups parallel output together (only parallel 12VDC connector, GND does not require parallel) to ensure that no action is triggered since the resumption of insurance protection, so that the power will cut off.



Maximum Output Specification Table:

Group	Marks	Descriptions	Limitation (Max maximum current)	Remarks
Output1	12VDC	Electronic Lock	1.35A	



Output 2	12VDC	Electronic Lock	1.35A	
Output 3	12VDC	Electronic Lock	1.35A	
Output 4	12VDC	Electronic Lock	1.35A	
Output 5	12VDC	Controllers & Readers	1.35A	
Output 6	12VDC	Battery	1.35A	

Chapter Three: Installation Procedures

3.1 Fixing Into Metal Box

1. Fixing power supply into the metal casing.
2. Fixing power supply with four M3 * 12 screws.
3. Connect 100-240VAC input power wiring with input wiring connector, and to ensure that the ground is well connected.
4. Connect the controller to the power's white output connector.
5. Green output connector is preset to electronic locks and other accessories. To use the electronic locks, which need to be connected with the controller relay.
6. To install the backup battery to ensure system can work Stably when city power encounter cut off.

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3.2 Precautions

- High voltage inside of power supply, which is not allowed to open the cover whenever.
- When installing the power supply, make sure the backup battery connector and controller PCB power connector are inside of the lead, to prevent the shell from crushed;
- Please confirm input / output wiring connections are secure, no poor contact, open circuit, short circuit, etc. before turning on power supply;
- If the power does not work, please check the input is normal, switch status is correct, output short-circuit and so on;
- Power Input Insurance specifications: 250V/3.15A, in case of lightning, and other causes overload, fuse can be replaced;