



AA Portable Power Corp.  
[www.batteryspace.com](http://www.batteryspace.com), Email: [Sales@batteryspace.com](mailto:Sales@batteryspace.com)  
825 S 19<sup>th</sup> Street, Richmond, CA 94804  
Tel: 510-525-2328 Fax: 510-439-2808

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# Specification & Instruction of Smart Charger CH-LFS1A20SM



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## Specification:

Feature	<ul style="list-style-type: none"><li>• Designed for 3.2V LiFePO<sub>4</sub> rechargeable battery with capacity <math>\geq 20\text{Ah}</math></li><li>• Input Power: 100V - 240V AC, 2A Max, 50/60Hz</li><li>• Output Power: <math>3.65\pm 0.2\text{V DC}</math>, <math>20\pm 0.2\text{A Max}</math>, 73W</li><li>• Efficiency: <math>&gt;80\%</math></li><li>• Operation Temperature: <math>-25^{\circ}\text{C} \sim +40^{\circ}\text{C}</math></li></ul>
Function	<ul style="list-style-type: none"><li>• CC-CV Charging mode</li><li>• Automatic voltage detection with LED indicator (red/green) during charging process Power On: Green Charging: Red Fully charged: Green</li><li>• Automatic cut-off charging function by IC</li></ul>
Safety Protection	<ul style="list-style-type: none"><li>• The protection is built in the circuit of the charger to prevent over current, over voltage and short circuit</li></ul>
Dimension	L 6.7" X W 3.6" X H 1.7" (170x90x44 mm)
Weight	1.13 lb (513g)





## Instruction:

Please carefully read the following instruction before you start to use this charger.

## Caution:

- This charger is only for Indoor use
- The charger shall be placed on a fixed horizontal surface when the charger is operated
- Avoid storing or operating the charger in highly humid place or any place with inflammable good
- Do not cover the charger when the charger is operated  
The ambient temperature shall not excess 40 °C
- Do not charge the battery on the list below  
Voltage < 3.65V, or Voltage > 3.65V  
Capacity < 20Ah
- Battery must be made by high drain current cell
- Completely plug the power cord into AC power resource  
Do not expose any metal part of the power cord during operation  
Do not use your hand or any of your body to touch the metal part of the power when you connect the power to the charger
- Do not disassembly the charger any time
- AA Portable Power is not responsible for any damage caused by any misusage

## Operation Steps:

1. Connect the battery to the charger (Anderson Connector) with correct polarity (Red cable connects to positive, Black cable connects to negative)
2. Plug the power cord into the AC power resource
3. When the power is on without connecting battery, the LED indicator will be Green. When it is in charging process, the LED indicator turns Red. When the battery is fully charged, the LED indicator will be Green  
Note: When the charger is in short condition, the LED indicator will be Red, and the fan will not be activated
4. The charging time is variable depends on the battery