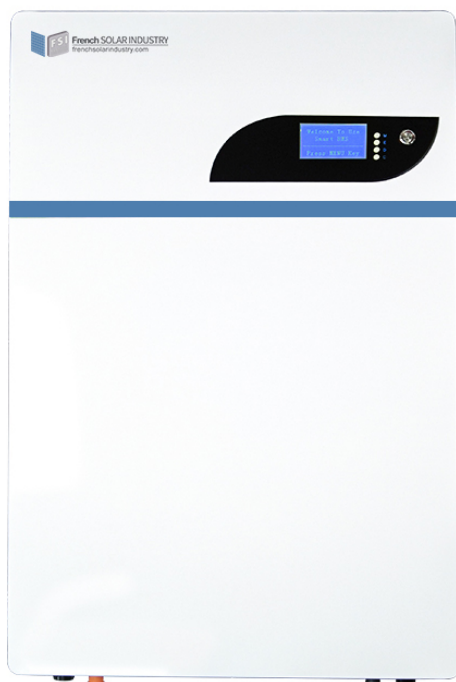




**French SOLAR INDUSTRY**  
frenchsolarindustry.com

## FSI-48200 (48 V200Ah) Specification



## Features

Cost Effectiveness



Warranty Period



Longer Service Life



Guaranteed Safety



Fast Charge



Drop-in Replacement



## Technical Characteristics

### NORMAL CHARACTERISTICS

Nominal Voltage	48V
Nominal Capacity	200Ah(2P15S)
Energy	9600Wh
IR	≤30mΩ@100%SOC
Efficiency	≥99.5%
Maximum Modules in Parallel	16

### CHARGE & DISCHARGE CHARACTERISTICS

Voltage Window	42.0-54.0V
Max. Continuous Charge Current	100A
Max. Continuous Discharge Current	100A
Peak Discharge Current	160A

### OPERATING CONDITIONS

Cycle Life	≥6000
Operating Temperature	Charge: 0°C~60°C Discharge: -20 ~60°C
Storage Temperature	-20°C ~ 50°C
Storage Duration	12 months at 25°C
Heating Function	/

### MECHANICAL CHARACTERISTICS

Case Material	SPCC
Dimension (L*W*H)	780*500*185mm
Weight	About 85kg
Terminal Type	M6
IP Grade	/
BCI Group NO.	/
Cell Type-Chemistry	LiFePO4

### BMS CHARACTERISTICS

Primary Charging Protection	Current: 110A Delaytime:20 s
Secondary Charging Protection	Current: 120A Delaytime:10s
Primary Discharging Protection	Current: 120A Delaytime: 10 s
Secondary Discharging Protection	Current: 160A Delaytime: 500ms
Over-charge Voltage Protection	Voltage: 54.75 V Delaytime:1000ms
Over-discharge voltage protection	Voltage: 40.5 V Delaytime:1000ms
Temperature Protection	PCB temperature≥95°C Recover≤85°C
Communicating Function	RS485 CAN



## Constant Current Discharge Data (Amperes@25°C)

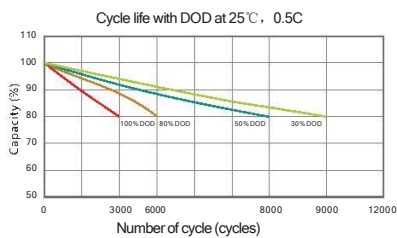
	2h	3h	4h	5h	10h
Cut-off voltage (42.0V)	100A	67A	50A	40A	20 A

## Constant Power Discharge Data (Watt@25°C)

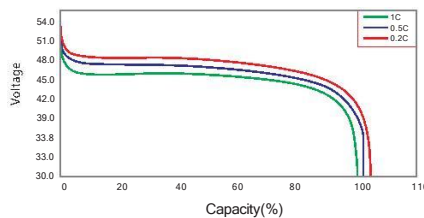
	2h	3h	4h	5h	10h
Cut-off voltage (42.0V)	4800W	3200W	2400W	1920W	960 W

## Cycle No. Vs DOD%

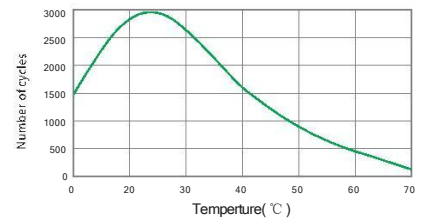
Number of Cycles Vs. DOD



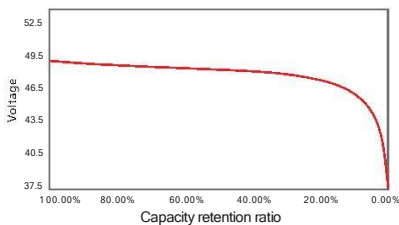
Discharge Performance at R.T.



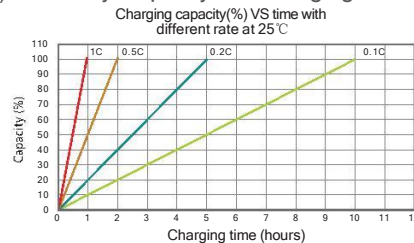
Cycle Life in Relation to Temperature



Battery Capacity (C) Vs. Open Circuit Voltage (OCV)  
SOC Vs OCV



Battery Capacity Vs. Charging Time



Temperature Effects on Capacity

