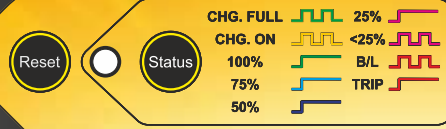


# Hykon®

Powering the Nation



### Smart Indicator



\*Detachable Handle

IP 56

IP 56



ABS Plastic

## SAFE Series LiFePO<sub>4</sub> Battery Pack

### Features

- Smart Indicator
- High Energy Density
- High Efficiency Cells
- Space Saving Design
- Less Weight
- ECO Friendly
- Zero Maintenance
- High Battery Life (7-10 years\*)
- Fast Charging\*
- Compatible for Solar Charging
- Low Self Discharge

### Protections

- Overload
- Short Circuit
- Battery Deep Discharge
- Battery Over Charge
- Over Temperature

### Applications

- UPS
- Inverter
- Solar Energy



\*Conditions Apply

## Technical Specification

MODEL	SAFE 12-40	SAFE 12-60	SAFE 12-80	SAFE 24-20	SAFE 24-40	SAFE 48-20
<b>ELECTRICAL SPECIFICATIONS</b>						
Nominal Voltage	12.8 V			25.6V		48V
Nominal Capacity	40 Ah	60Ah	80Ah	20Ah	40Ah	20Ah
Capacity @ 0.2C	300 min					
Energy	512 Wh	768Wh	1024Wh	512Wh	1024Wh	960Wh
Resistance	≤10 mΩ			≤20 mΩ		
Efficiency	99%					
Life Cycle	>2500Cycles @ 80% DOD					
Self Discharge	<3% per Month					
<b>DISCHARGE SPECIFICATIONS</b>						
Maximum Continuous Discharge Current	40 A	60A	80A	20A	40A	20A
Peak Discharge Current	80 A	80 A	80 A	40 A	60 A	40 A
BMS Discharge Current Cut-Off	250 A ±50 A (4ms)					
Recommended Low Voltage Disconnect	11.2 V			23V		44V
BMS Discharge Voltage Cut-Off	10 V (2.5 ±0.08 vpc)			20 V (2.5 ±0.08 vpc)		37.5V(2.5 ±0.08 vpc)
Reconnect Voltage	11.2V (2.8±0.1 vpc)			22.4 V (2.8 ±0.08 vpc)		42V(2.5 ±0.08 vpc)
Short Circuit Protection	200-500 μs					
<b>CHARGE SPECIFICATIONS</b>						
Recommended Charge Current	8A	12A	16A	4A	8A	8A
Maximum Charge Current	40 A	60A	80A	20A	40A	20A
Recommended Charge Voltage	14.2V - 14.6V			28.6V - 29V		53.2V- 54.7V
BMS Charge Voltage Cut-Off	15.6 V (3.9 ±0.025 vpc)			31.2 V (3.9 ±0.025 vpc)		58.5 V (3.9 ±0.025 vpc)
Reconnect Voltage	15.2 V (3.8 ±0.05 vpc)			30.4 V (3.8 ±0.05 vpc)		57 V (3.8 ±0.05 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)			28.8 V (3.6 ±0.025 vpc)		54 V (3.6 ±0.025 vpc)
<b>TEMPERATURE SPECIFICATIONS</b>						
Discharge Temperature	-20 to 60 °C					
Charge Temperature	0 to 45 °C					
Storage Temperature	0 to 45 °C					
BMS High Temperature Cut-Off	75 °C					
Reconnect Temperature	50 °C					
<b>COMPLIANCE SPECIFICATION</b>						
Certifications	BIS (Cell)					
	IS 16046(Cell)					
	AIS 048(Cell)					
	IEC62133 (Cells)					
Dimensions (L x W x H)	329 x 172 x 223 mm					
Weight(Approx)	6 kg	9Kg	11.5Kg	6.5Kg	12Kg	11.5Kg
Terminal Type	M8					
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)					
Case Material	ABS					
Enclosure Protection	IP56					
Cell Type - Chemistry	Cylindrical - LiFe PO <sub>4</sub>					

### Helpline

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**MADE IN INDIA**