

# Product Parameters

Li-ion battery 3~24S / Lifepo4 battery 3~24S

Description	Description	Specification													Unit
		30A	40A	50A	60A	80A	100A	120A	150A	200A	250A	300A	400A	500A	
Discharge	Continue discharge current	30	40	50	60	80	100	120	150	200	250	300	400	500	A
	Over discharge current detect voltage	45	60	75	90	120	150	180	225	300	375	450	600	750	A
Inner Resistance	Main Circuit Conduct Inner resistance	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	mΩ
Charge	Charge voltage	LifePO4: S*3.65      Li-ion: S*4.2      LTO: S*2.8													V
	Charge current	15	20	25	30	40	50	60	75	100	125	150	200	250	A
	Over Charge current detect delay	45	60	75	90	120	150	180	225	300	375	450	600	750	A
Over charge protection	Over charge detect voltage	LifePO4: 3.75±0.05			Li-ion: 4.25±0.05			LTO: 2.85±0.05							V
	over charge protection delay	1													S
	over charge release voltage	LifePO4: 3.55±0.05			Li-ion: 4.15±0.05			LTO: 2.75±0.05							V
Balance	Balance detect Voltage	LifePO4: 3.2			Li-ion: 3.8			LTO: 2.4							V
	Balance release voltage	LifePO4: 3.2			Li-ion: 3.8			LTO: 2.4							V
	Balance current	LifePO4/Li-ion: 30±5						LTO: 20±5							
Over discharge protection	Over discharge detect	LifePO4: 2.2±0.05			Li-ion: 2.7±0.05			LTO: 1.7±0.05							V
	Over discharge detect delay	1													S
	Over discharge release voltage	LifePO4: 2.3±0.05			Li-ion: 2.8±0.05			LTO: 1.8±0.05							V
Over Charge current protection	Over discharge current detect delay	1													S
	Over discharge current protection release condition	Off load													
Over Charge current protection	Short Circuit protection condition	Short circuit of external load													
	Short circuit detect delay	200~500						The actual results are based on the DALY test sent back by the customer.							uS
	Short circuit protection release	Off load													
Temp Protect	Temperature protection degrees	Charge: -40~65, Discharge: -40~70													°C
Self Consumption	Working current	35													uA
	Sleeping current (over-discharge)	800													uA
Working Temp	Temp range	-20~60													°C
Storing Temp	Temp range	-40~85													°C

## Wiring Diagram

# Wiring diagram of discrete BMS for home energy storage

