



# iPower 5.2

## FEATURES

- High safety LiFePO4 battery;
- Long cycle life  $\geq 8000$  cycles
- Wall mounted;
- Ingress Protection grade: IP55;
- Intelligent LED & LCD display
- Support WIFI APP / cloud platform monitor;
- Optional RS 485, CAN communication;
- Compatible with Schneider, Sol Ark , DEYE , Victron, Voltronic , Growatt , SMA inverters;
- Support max. 14 pcs in parallel to scale up to 70kwh;
- CE, IEC62619, UL1973, UN38.3 certification

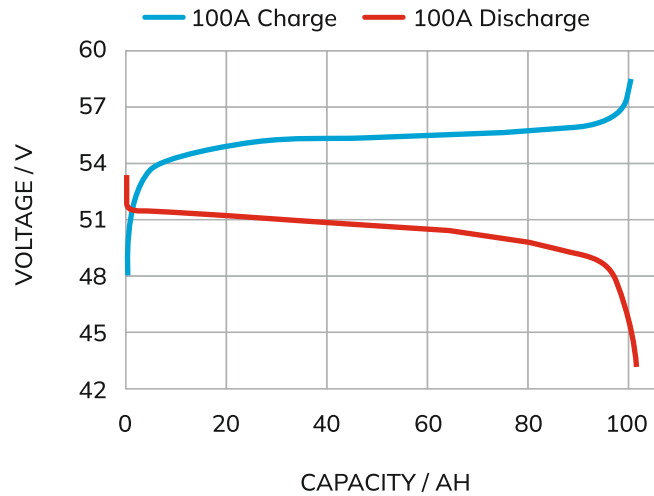
## BATTERY SPECIFICATION

Items	Description
Nominal Voltage	51.2V
Nominal capacity	100Ah
Nominal energy	5.12kWh
Charging Voltage	Equalizing charging: 56.0V; Float charging: 54.0 V
Charging current	Recommend charge current: 50A Max. Charge current(continuous): 80 A
End discharging voltage	43.2V
Max. discharging current	Continuously: 100 A; Peak current : 350 A for 3 seconds
Cycle life@0.33C	$\geq 8000$
Calendar life	10years
Dimensions(Width/Height/Depth)	454*728*206 mm
Ingress Rating	IP55
Battery module weight	Approx. 60.7kg
Certification	CE, IEC62619, UL1973, UN38.3
Self discharge rate	$\leq 3\%$ per month @Sleep mode
Operation temperature (cells temperature)	Discharge: $-20^{\circ}\text{C}\sim 55^{\circ}\text{C}$ ( $-4^{\circ}\text{F}\sim 131^{\circ}\text{F}$ ) Charge : $0^{\circ}\text{C}\sim 45^{\circ}\text{C}$ ( $32^{\circ}\text{F}\sim 113^{\circ}\text{F}$ )
Storage Temperature & Humidity	$-10 \sim 30^{\circ}\text{C}$ , 45% ~ 85% RH

## BMS FUNCTION

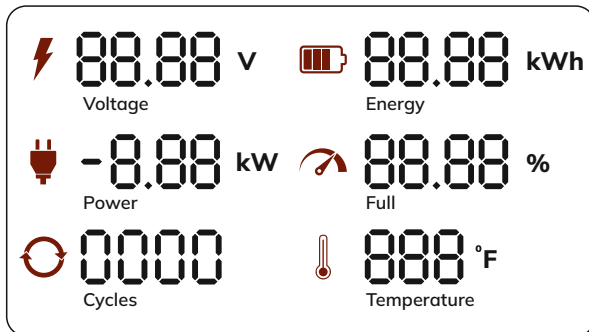
Items	Description	
Over Voltage	Over - voltage alarm for each cell Over - voltage protection for each cell Over - voltage release for each cell Over - voltage alarm for total voltage Over - voltage protection for total voltage Over - voltage release for total voltage Over - voltage release method	3.55±0.03V 3.75±0.03V for 1±0.5s 3.35±0.03V 57.2V±0.5V 58.4V±0.5V for 1±0.5s 53.6V±0.5V Under the release voltage
Under Voltage	Under voltage alarm for each cell Under voltage protection for each cell Under voltage release for each cell Under voltage alarm for total voltage Under voltage protection for total voltage Under voltage release for total voltage Under voltage release method	2.90±0.03V 2.70±0.03V for 1±0.5s 3.15±0.03V 46.4V±0.5V 43.2V±0.5V for 1±0.5s 50.4V±0.5V Charge to recovery
Over Current	Charge over current alarm Charge over current protection Charge over current release method Discharge over current alarm Discharge over current protection Over current release method	110±5A 120±5A, Delay time:5s Auto release after 1min; 110±5A 120±10A, Delay time:1s Auto release after 1min
Over Temperature	Charge over temperature alarm Charge over temperature protection Charge over temperature release Discharge over temperature alarm Discharge over temperature protection Discharge over temperature release	50±3℃ 55±3℃ 45±3℃ 60±3℃ 65±3℃ 55±3℃
Under Temperature	Charge under temperature alarm Charge under temperature protection Charge under temperature release Discharge under temperature alarm Discharge under temperature protection Discharge under temperature release	03±3℃ 00±3℃ 05±3℃ -15±3℃ -20±3℃ -10±3℃
SOC	LOW SOC Alarm: 10%	
LCD	Battery information display: Voltage, Power , SOC, Cycles, Temperature, Residual energy, Errors/Alerts	
Communication	Can bus, RS485 Optional	
Inverter Support	Schneider, Sol-Ark, Deye, Victron , Voltronic, Growatt, SMA inverter, etc.	
Pre-charge & Start	Can start-up inverters with total power 10kW.	
WIFI Monitoring	Available	
Series & Parallel Connection	No serial connection; Support max. 14pcs in parallel.	

## PERFORMANCE CURVE (1.0C CHARGE & 1.0C DISCHARGE)

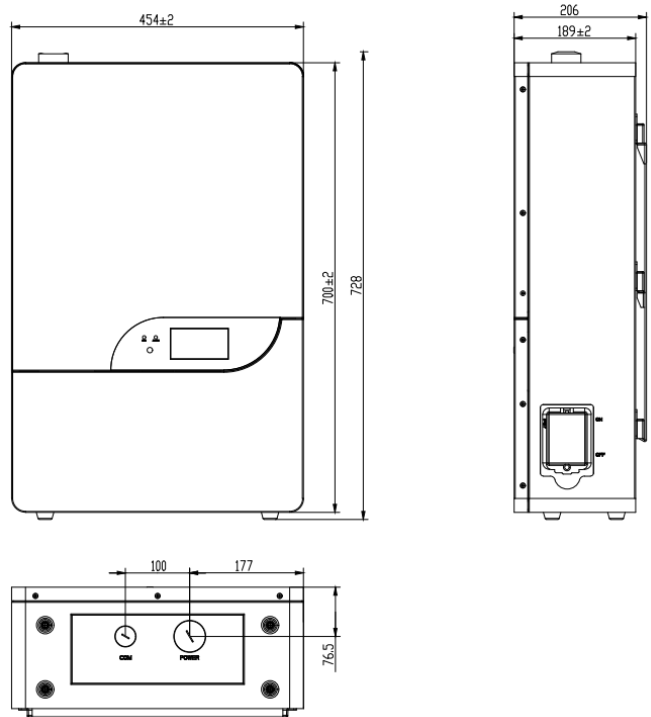


## PRODUCT PICTURES

### LCD Display:



### Product Dimension:



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