



# 57.3kWh 51.2Vdc

Our LiFePO4 energy storage systems are non corrosive, non gassing and non flammable. These battery systems are the safest batteries in the world. Virtually no maintenance other than monitoring. Systems include Master BMS and numerous slave BMS depending on Li system size and capacity. All API LiFePO4 energy storage systems have a programmable low voltage disconnect system that protects the batteries from complete discharge. We also have a high voltage protection system. Our latest generation, generation 12, incorporates our proprietary BMS system (s). Over a year in the making for R&D, engineering, prototyping, testing, and manufacturing. We are now manufacturing our own proprietary API BMS. State of the art, 15-62 vdc (no more power supplies needed), plus CAN and trigger ports. Our new API BMS incorporates our proprietary, totally unique, active cell balancing system. No other BMS in the world can do what we do. We can control solar, wind, hydro, generators and/or loads if needed. Our BMS also has an SB Port. This allows us to remotely upgrade all the system's programs.



Model	API 51.2V 1120AH	General	
Rated Volt	51.2Vdc	BMS	Integrated
Rated Capacity	1120 AH( 4 battery banks, 1 master,3 slaves)	Current Shunt	Integrated
		Temperature Sensor	Integrated
System Energy	57.3kWh	Individual Battery Banks Over Current Circuit Breaker	Integrated
Working Volt Range	50-54.5 Vdc	Main Battery Bank Over Current Circuit Breaker	Integrated
Depth of Discharge	96%	Active Balancing	Integrated
Max Charge Current	500A	External Generator Start Based on Voltage or % SOC	Integrated
Max Discharge Current	500A	Communication to Charger	CANBUS
Max Discharge Current (10s)	550A	Communication to Inverter (Sol-Ark)	Integrated
Charge Temperature Range	0°C~50°C	Communication to Display	RS485
Discharge Temperature Range	-20°C~55°C	Enclosure	IP21 indoor
Storage Temperature Range	-30°C~55°C	Display Info	Battery pack voltage, charge/discharge current, cell's volt, cell's temperature, alarm info, balance info, history
Cycle Life	8,000 cycles (@ 50% DOD)		
Size (L*W*H ) mm	955*1100*1480		
Weight	720 Kg		

### Protection and Standard

Protection	Over charge ,over discharge, over temperature, over current
Transport standard	UN38.3
Safety Standard	CE, ETL,UL, UN, IEC Compliant

4, 280 AH battery banks, 1 Master, 3 Slaves. Each bank has overcurrent circuit breaker and balancing port. BMS: SB port, active cell balancing, remote monitor/display, 1 Master, 3 Slaves. System main overcurrent circuit breaker, current shunt, copper buss bars. Removable sides for easy wiring access. 10, 1 1/2" knockouts, 5 on each side. Individual battery banks are removable for service if needed. BMS programmable to allow system operation with 1 or more battery banks removed/disconnected.