ADVANCE
SOLAR·HYDRO·WIND
POWER INC
Since 1978 Redwood Valley

14.3 kWh 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	API51.2V280AH
Rated Volt	51.2Vdc
Rated Capacity	280 AH (one battery bank)
System Energy	14.3kWh
Working Volt Range	50-54.5Vdc
Depth of Discharge	96%
Max Charge Current	100A
Max Discharge Current	100A
Max Discharge Current (10s)	110A
Charge Temperature Range	0℃～50℃
Discharge Temperature Range	-20℃～55℃
Storage Temperature Range	-30℃～55℃
Cycle Life	8,000 cycles (@50% DOD)
Size (L*W*H) mm	970*445*426
Weight	130Kg

General	
BMS	Integrated
Current Shunt	Integrated
Temperature Sensor	Integrated
Battery Over Current Circuit Breaker	Integrated
Active Balancing	Integrated
External Generator Start Based on Voltage or % SOC	Integrated
Communication to Charger	CANBUS
Communication to Inverter	CANBUS
Communication to Display	RS485
Enclosure	IP21 indoor
Display Info	Battery pack voltage, charge/discharge current, cell's volt, Cell's temperature, alarm info, balance info, history

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

280 AH battery bank, 1 BMS, SB Port, active cell balancing, remote monitor/display. Cell balancing connector, system main Circuit Breaker. Lockable cover panel for easy wiring access. 8, 1" knockout, 4 on each side.