

# 14.3 kWh 51.2Vdc Wall Mount



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	General	
Rated Volt	51.2Vdc	BMS	Integrated
Rated Capacity	280 AH (one battery bank)	Current Shunt	Integrated
System Energy	14.3kWh	Temperature Sensor	Integrated
Working Volt Range	50-54.5Vdc	Battery Over Current Circuit Breaker	Integrated
Depth of Discharge	96%	Active Balancing	Integrated
Max Charge Current	100A	External Generator Start Based on Voltage or % SOC	Integrated
Max Discharge Current	100A	Communication to Charger	CANBUS
Max Discharge Current (10s)	110A	Communication to Inverter	CANBUS
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	Front Panel	External LED indicators showing Fault, Discharge, Charge and Standby; External Main System Circuit Breaker
Cycle Life	8,000 cycles (@50% DOD)		
Size (L*W*H)	11"x 29" x 33.5"		
Weight	140Kg		

## 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, system main circuit breaker; 8, 1" knockout (2 on each side, 2 on top and 2 on the bottom)