

MODULE PERFORMANCE SPECIFICATIONS

| | |
|----------------------|------------------------------|
| Model Number | GC5120200 |
| Cell | Prismatic |
| Voltage | 51.2V |
| Capacity | 200 Ah |
| Energy | 10.24kWh |
| Chemistry | LiFePO4 |
| Internal Resistance | ≤25mΩ |
| Cycle Life | >6,000 cycles (0.5C 80% DOD) |
| Efficiency of Charge | 100% |
| Self Discharge Rate | <1% per month |

MODULE DISCHARGE SPECIFICATIONS

| | |
|-----------------------------|-----------------------------|
| Max Continuous Discharge | 250A (12.8kW) |
| Pulse Cranking Amps (PCA) | 450A (10 sec), 750A (5 sec) |
| Recommended Cut-off Voltage | 48V |
| Under Voltage (Recovery) | 45V (>48V) |
| Efficiency of Discharge | >98% |

MODULE CHARGE SPECIFICATIONS

| | |
|------------------------------------|---------------------|
| Rec. Charge (Bulk/Absorb/Float) | 56.8V / 56.8V / 56V |
| Over Voltage (Recovery) | 14.6 ± 0.05V |
| Equalization (60 min every 7 days) | 55V |
| Over Voltage (Recovery) | 58.4V (>54V) |
| Max Continuous Charge | 100A (5.12kW) |

MODULE MECHANICAL SPECIFICATIONS

| | |
|------------------------|--|
| Case | Stainless Steel |
| Dimensions (L x W x H) | 31.3 x 14.2 x 9.6 in 795 x 360 x 243 mm |
| Weight | ±198 lbs (55 kg) |
| Terminal Type | M8 |
| Protection Rating | IP20 |

MODULE ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------|-------------------------------|
| Operating Temperature | -10°C to 60°C (14°F to 140°F) |
|-----------------------|-------------------------------|

Lithium Iron Phosphate



Golf Cart Steel Case Module 5 Year Limited Warranty

Easy Installation: Module designs fit standard indoor racking, cabinet, wall mount or outdoor container systems with closed loop communication with industry leading inverters.

Superior Safety: POWERSYNC systems are designed to meet and exceed safety requirements for energy storage systems. At the cell level, systems have successfully passed explosion resistance crush, puncture, drop and impact tests.

Fast Charging: Up to 100% recharging 100% of the time, and up to 5X more continuous power.

Advanced BMS Protection: Under/over voltage, over current, under / over temperature, and short circuit protections.

Breakers: Full stop breakers on each module.

Heating Element: Internal heater for cold climates.

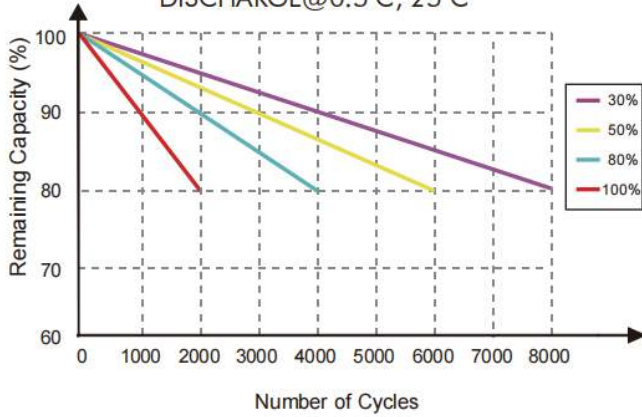
Communications: RS-485 Communications

Certifications: UL-1973, CE, IEC62619 & CB, KC BIS
Shipping Classification: UN3480, Class 9, UN38.3

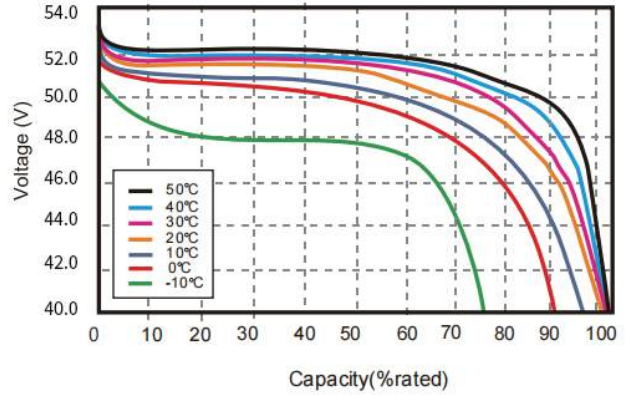




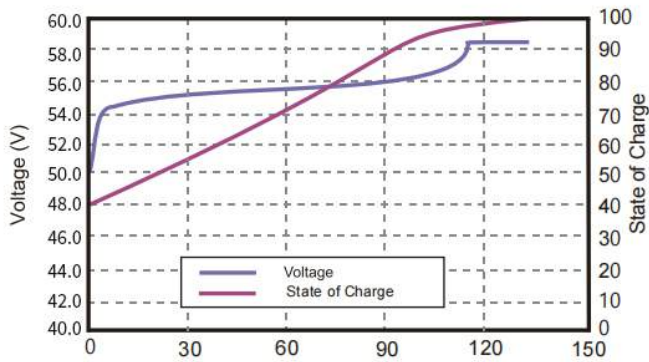
CYCLE LIFE vs. DEPTH OF DISCHARGE (DOD) DISCHARGE @ 0.5 C, 25°C



DISCHARGE CAPACITY at VARIOUS TEMPERATURES DISCHARGE @ 0.5°C



STATE OF CHARGE CURVE @ 0.5C, 25°C



CHARGING CHARACTERISTICS @ 0.5C, 25°C

