

Overview

Datasheet

Rv512O series lithium iron phosphate (LFP) battery modules are specially designed for multi applications by Voltgo. These battery modules adopt ABS shell, which can be used 24/7. They have outstanding advantages of waterproof, Bluetooth, heating feature, impact resistance, good insulation performance, easy installation and maintenance-free. That lead they can meet the application $of RVs, solar \ lights, small \ medical \ equipment, toys \ and \ some \ small \ energy \ storage \ system. \ Battery \ modules \ own \ intelligent \ BMS$ inside, which offers great advantages in terms of safety, cycle life, energy density and temperature range.

	VLRV5120A	VLRV5120B	VLRV5120C		
Basic Parameter				Life Cycles	
Rated Voltage (V)	12.8	25.6	51. 2	Cycle Life	> 6000 (0.5C@ 25°C,80% DOD)
Rated Capacity (Ah)	400	200	100	Design Life (Year)	15
Rated Energy (Wh)	5120	5120	5120		
Operation Parameter				Environment Parameter	
Voltage Range (V)	10-14	22.4-28	44.8-56	Humidity (%)	5-95% RH
Cut-off Voltage (V)	10	20	40	Charge Temperature Range	-20-45 °C / -4-113°F(Heating)
Recommend Charge Current (A)	≤120	≤60	≤30	Discharge Temperature Range	-20-55 °C / -4-131°F
Max Constant Charge Current(A)	200	150	100	Storage Temperature Range	-20-45 °C / -4-113°F
Max Discharge Current (A)	250A(Constant) 350A(Pulse:30s)	200A(Constant) 250A(Pulse:30s)	100A(Constant) 150A(Pulse:1min)	ATTERY	14A7A
Physical Parameter				Certification	
Dimensions :W*D*H	460*320*247(mm) 18.11*12.60*9.72(in)			Safety & Certification	UL1973 Compliant
Weight	41(Kg) 90.2(Ib)			Transportation	UN38.3

Display Method



This battery owns special structure design, the metal strips can be used not only as a handle, but also as a "floor lock" & "rear lock", and as a connecting strip when multiple batteries are used in combination, which can great improve installation efficiency and reduce special tools requirement.



Multiple batteries combination





Heating Feature and Low-temp Protection

When the ambient temperature is between -20 \sim 0 $^{\circ}$ C and an external power input exists the heating feature will automatically triggered to ensure that the battery can be charged normally (0-45°C)



Bluetooth

Monitoring the battery operation status(Voltage, Current Temperature, SOC etc.) in real time with the built-in Bluetooth module on mobile devices



Other Features



Compact Design

Smaller size & Lighter weight can save more space compared with VRLA battery.



Detachable Design

The detachable design ensures good maintainability of the battery and avoids damage to the case during possible repairs (Repair requires trained engineers and professional equipment, and non-professional operation may result in a lower IP protection rating, ultimately affecting your product warranty)



High IP Rating

Ip65 design meets most application scenarios



Intelligent BMS

The battery management system (BMS) provides short circuit, over-voltage, low-voltge, over-temp, low-temp protection



Maintenance-free

Quality cells ensure more than 6000 cycles (0.5C, 80%DOD@25°C), maintenance-free during the whole lifetime, and a wide operating temperature range.



Smart Balancing

Built-in balance circuit will auto trigger while reaches to set conditions, that will areatly improve the consistency of the battery and extend your lifespan.



Master Instruments Pty Ltd

WA (Wangara): (08) 9302 5444 Web: www.master-instruments.com.au VIC (Croydon South): (03) 9872 6422 QLD (Eight Mile Plains): (07) 3038 3250





