

Cleaning Machines Li-ion Battery Solutions



ZP18030



ZP19006



Advanced Features

- + Integrated Battery Management System (BMS) with authentication feature;
- + AFE+MCU high precision platform;
- + Support cell balancing function;
- + Reduced power pulse charging when cell reaches 60°C temperature, supporting 1 hour quick charge to 80% SOC;
- + 1-wire UART communication monitor current, voltage, temperature, SOH and high precision fuel gauge management;
- + Support secondary protection of voltage, discharge current;
- + Multiple safety fault protection settings to fit transportation mode, sleep mode and permanent failure mode;
- + Compatible with smart charger;
- + Improved design with extruded Aluminum housing and plastic cover;
- + With a handle for easy handling and operation;



Advanced Features

- + Support Hot swap, N+1 redundancy;
- + AFE+MCU high precision platform;
- + Support cell balancing and self learning function;
- + Support parallel function with more than 8PCS in parallel;
- + Canbus communication monitor current, voltage, temperature, SOH and high precision fuel gauge management;
- + Support secondary protection of voltage, discharge current;
- + Multiple safety fault protection settings to fit transportation mode, sleep mode and permanent failure mode;
- + Compatible with smart charger;
- + Improved design with contracted and fashionable plastic housing with V0 fire rating;
- + LFP battery with superior high safety and better cycle life about 4000 times;
- + LED display can show the battery state;
- + The bottom supports to switch on/off battery directly and conveniently;



Cleaning Machines Li-ion Battery Solutions

Specifications

Model	ZP18030 (Customized product and can modify the design)	ZP19006 (Customized product and can modify the design)
Rated Voltage [V]	37.0V	25.6V
Rated Capacity [Ah]	8.1AH	50AH
Total Energy [Wh]	300WH	1280.0WH
Inner Resistance [mΩ]	≤175mΩ	/
Charge Voltage [V]	41.5V	28.8V
Max. Charge Current [A]	6.0A	25A
EOD Voltage [V]	29.0V	18.4V
Continuous Discharge current [A]	15.5A	50A
Peak Discharge current [A]	30.0A/3S	263A/10ms
Dimensions [L*W*H, mm]	134.9*89.0*167.6mm	312.0*124.0*183.5mm
Weight [kg]	2.1KG	11.5KG
Parallel function		support battery parallel connect to extend the capacity
IP Grade	IP67	IP56
Charge Operating Temperature [°C]	0~45°C	0-35°C
Discharge Operating Temperature [°C]	-20~60°C	-10 to +50°C
Relative Humidity	20%RH-80%RH (non-condensing)	20~ 80%RH (non-condensing)
Communication Port	One-wire Communication	CANbus2.0
Protection	/	Over v voltage protection, low v voltage protection, high temperature protection, lowtemperature protection, and short circuit protection
Certification	UL2054, UL62368, IEC62133:2012&2017, PSE, CE, UN38.3, ROHS	UL2271, IEC62619, CE,ROHS, UN38.3

Battery pack in parallel install process to system,Diagram for battery pack in parallel install process to system as below;

