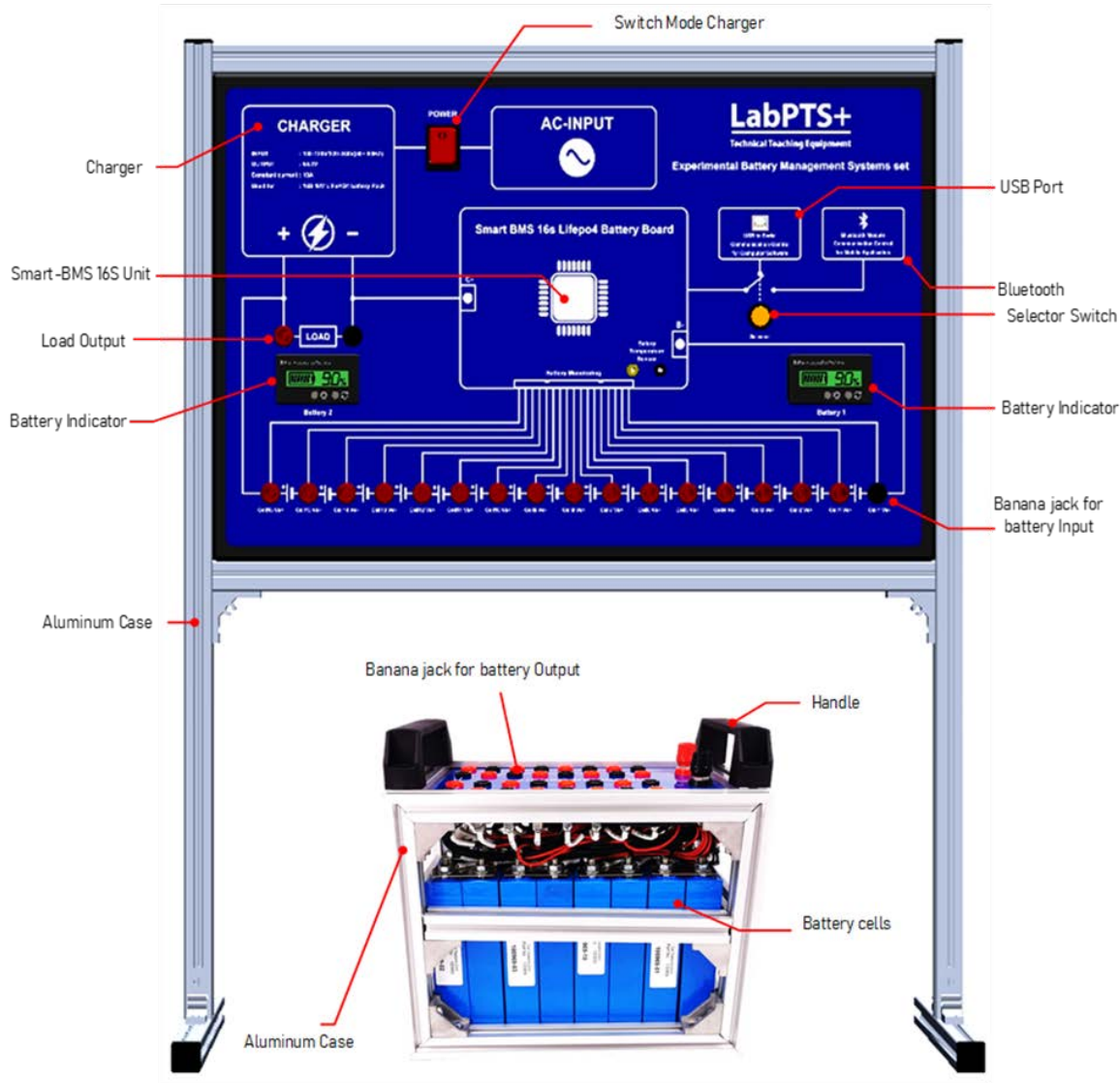


EXPERIMENTAL SMART BATTERY MANAGEMENT SYSTEM SET

FOR EDUCATION IN AUTOMOTIVE CONTROL SYSTEM FIELD



FEATURE DETAIL

- Experimental Smart Battery Management System set is designed as the electric vehicle learning set so suitable undergraduate degree or vocational/diploma education.
- Cover the lesson comprehensive to electric vehicle system such as batter power supply, battery charger. electromechanical machine in automobile and sensor system, battery management, principle charger system.
- Support for software development or coding by simulation as electronic control unit (ECU)
- In addition, Experimental Smart Battery Management System set can interface with xMCU Development Board V1.0 for self-design and development about the electric vehicle system.
- Experimental Smart Battery Management System set can integrate learning with electric vehicle Lab kits.

ACCESSORIES LAB KITS

- Experimental Smart Battery Management System set
- Battery Unit
- Banana Cable
- USB Communication Cable
- AC Power Cable
- Worksheet Document.

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SYSTEM CONFIGURATIONS

Module Interface	Description	Remark
Smart-BMS 16S		
<ul style="list-style-type: none"> - Model Number: - Constant Discharging Current - Over- Current Protection value - Constant Charge Current - Charge voltage - Over-charge detection Protection voltage - Over-charge protection delay time - Over-charge protection recovery voltage - Balance start Voltage - Balance release voltage - Balance current - Over-discharge detection voltage - Over-discharge protection delay time - Over-discharge protection recovery voltage - Discharge over temp protection - Over temp release conditions - Applications 	<ul style="list-style-type: none"> 16S 48v 60A 60A 70A 40A 3.6V *Cell series 3.75±0.03V 1000ms 3.6±0.05V 3.4V Less 3.4 50-60mA 2.7±0.1V 1000ms 2.8±0.1V 75±5 degree 65 degree Electric vehicle, Automotive, 	<ul style="list-style-type: none"> Lifepo4 #Cell series
Charger		
<ul style="list-style-type: none"> - Model Number - Input voltage - Output voltage - Output current - Charging indicator - Applications 	<ul style="list-style-type: none"> UY360 110/240 VAC 58.4V 5A or 6A(max) LED1 Red: Power On, LED 2 Red: Charging, LED 3 Green: Charged LiFepo4, Lithium ion, Lead Acid 	<ul style="list-style-type: none"> (For 16S LiFepo4 Battery 48V)
Battery		
<ul style="list-style-type: none"> - Model Number: - Nominal Capacity - Internal Impedance - Nominal Voltage - Max charge Voltage - End-of-charge Current - Cut-off discharge Voltage - Standard Charge Method - Max pulse Discharge Current - Recommended discharge current - Max continuous discharge current - Charging Temperature - Discharging Temperature - Storage Temperature - Appearance 	<ul style="list-style-type: none"> TB-027070145E-Fe-20Ah 20Ah ≤10mΩ 3.2V 3.65V 0.05C 2.00V 1C CC/CV 5C ≤20A ≤60A 0~45 degree -20~55 degree 10~30 degree Without break, scratch, distortion, contamination, leakage and so on 	<ul style="list-style-type: none"> At CC mode At CV mode 25±5°C Discharge Time: 10 seconds
Structure		
<ul style="list-style-type: none"> - Material 	<ul style="list-style-type: none"> Aluminum 	<ul style="list-style-type: none"> N/A