

6020

6020 BMS TEST SYSTEM



AUTOMATIC TEST EQUIPMENT (ATE)



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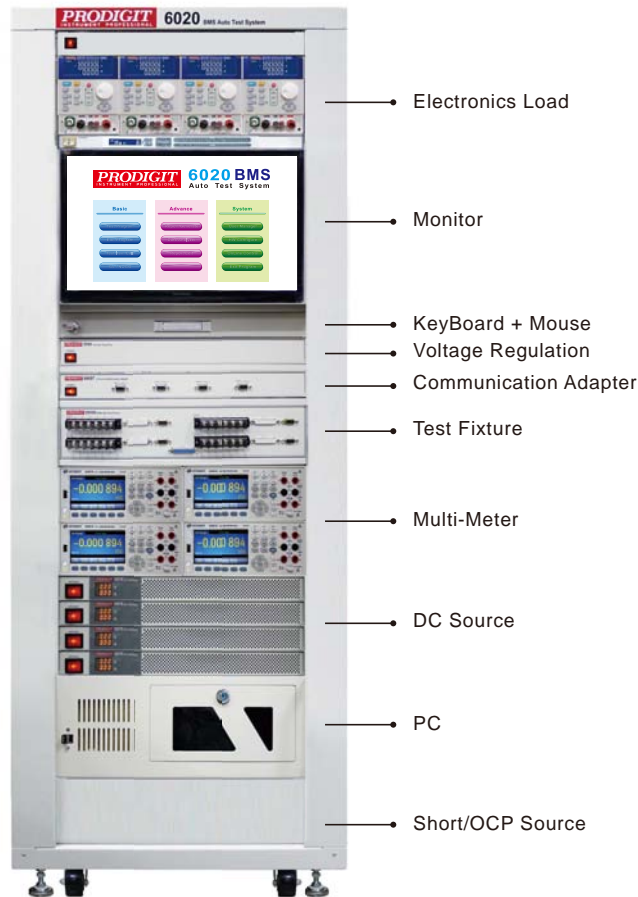
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6020 BMS Test System



Features

- Cost effective and full - featured modular design
- Multi - function test capability for charger , adapter , LED driver power
- Multi-U.U.T test simultaneously capability, significantly enhance the production line throughput
- Support Windows 7 operation system
- Open architecture software platform
 - Support related hardware expansion
 - User editable test item
 - User editable test program
 - User editable report format & statistical report
 - On-line control function
 - User authority control
 - Support Bar Code Reader

Descriptions

- System Authority Assignment : User Authority Management, which allows different users to assign different permissions
- High Extensibility : for multi-string battery cell, 4 cells per channel, expandable from 1 to 16 cells per strings
- High compatibility : for a wide range of charge and discharge specifications, and with multi-level current protection test
- Battery simulation device modular design : Use one string 16 cells or four string 4 cells battery, simulation device can simulate 0.1 ~ 5V analog battery cell voltage, you can test the core specifications of the PCM product, such as: PCM OC sleep power self-consumption, each string CELL of the charge and discharge protection and balance function.
- Testing Item includes the BMS DC internal resistance, AC internal resistance, working current consumption, battery cell balance, NTC simulation, various over or under voltage, over current, short circuit protection/recovery actions, etc., using 6020 BMS ATE can provide 1 to 4 groups of BMS test high-performance automatic test system, for each BMS function one by one and fast validation, which in the design verification or quality inspection is suitable for a group of BMS test system, however in the mass production required for rapid testing that needs for four groups of simultaneous testing BMS test system.

System Controller			
MODEL : PC			
CPU	i5-3470(3.2GHz) or faster	Monitor	22"
SRAM	256KB	Keyboard	101 keys
DRAM	4GB or higher	I/O	Mouse / Print port
Hard driver	500GB or higher	System interface	RS-232
CD-ROM	40X or faster	System I/O	1:8 RS-232 Card

Voltage Regulator	
MODEL : 5080	
No. of Channel/Cell	4 x 4
Voltage range	0 ~ 5V
Accuracy	±0.2% of (Setting + Range)
Resolution	0.001V
Max Current	12mA (AC Input 90V)
Slew rate	0.166V/us
Interface	RS-232

Electronic Load Module	
MODEL : 3310F Series / 3332F, 3336F	
Mainframe	3300F
Load Mode	CC / CR / CV / CP
Power rating	40-300W
Voltage range	0~500V
Current range	up to 60A (120A pulse : 3311F-15)
Slew rate	up to 2.5A/μS
Measurements	Power / Voltage / Current
Monitoring output	Current
Voltage Sense input	Yes

DC Source		
MODEL : 5070		
Power Rating	Voltage range	Current range
1200W	0~60V / 120V	0~20A/10A

DC Source			
MODEL : 5070			
Output		Measurements	
Power Rating	1500W	DCV meter	60V / 120V
Voltage range	0.2~60V / 0.4~120V	Resolution	0.01V(0~99) / 0.1V (100~120)
Accuracy	±1% of (Setting + Range)	Accuracy	±1% of (Reading + Range)
Resolution	0.01V	DCA meter	25A / 12.5A
Load Regulation	±1%	Resolution	0.01A
Line Regulation	±1%	Accuracy	±2% of (Reading + Range)
Current ranges	0~25A / 12.5A	Interface	RS-232
Accuracy	±1% of (Setting + Range)		
Resolution	0.01A		
Protection	OVP,OTP,OPP		

BMS Board Test Fixture			
MODEL : 99096			
No. of Test Channel	1 ~ 4	Discharge (P+ 、 P-)	20V/30A
Terminal of Input		Charge (CH+ 、 CH-)	20V/30A
Source (PS+ 、 PS-)	DC 20V/30A	Control I/O	Signal Output
MULTIMETER (M+ 、 M- 、 I+)	DCV 、 DCI 、 R	STATE	Pass/Fail/Test LED & Stop Key
DC Load+ 、 Load-	20V/30A	NTC Emulator	
DC Load Sense+ 、 Sense-	Signal Input	NTC Resistor	10KΩ
5080 (VB0 、 VB1 、 VB2 、 VB3 、 VB4)	DCV	Resistor Range	10 ~ 500KΩ
Terminal of Output		Beta Range	2000K ~ 5000KΩ
BAT (B+ 、 B-)	20V/30A	Temperature Range	-40 ~ 120℃

Order Information

- ▶ **6020** : 6020 BMS Test System
- ▶ **3300F** : Electronic Load Mainframe
- ▶ **OCP/Short DC Source** (5V/120A)
- ▶ **5070** : DC Source
- ▶ **5080** : Voltage regulator (applied to BMS board battery simulation)
- ▶ Multi-function digital meter
- ▶ **DC Electronic Load** : 3311F-15 (60V/60A/300W,120A pulse)
- ▶ **DC Electronic Load** : 3310F Series / 3332F / 3336F
- ▶ **99096** : BMS Board Test Fixture
- ▶ **99097** : Communication converter
- ▶ **6020** System software
- ▶ **6020 System 19" (20U) Standard Rack**
- ▶ **6020 System 19" (30U) Standard Rack**
- ▶ **Personal Computer**