



Power Battery Module Test System

Module Automatic Test Equipment

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01 Over view







Overview

- Module automatic test equipment is a test system for power battery Module, including standard cabinet and software system. The system adopts modular design and is capable of fully executing function test and performance test.
- It is widely used in power battery, energy storage battery production line off-line testing, R&D design and other scenarios.
- Typical test items: low-voltage communication; program brushing; program version verification; AC internal resistance measurement; total voltage



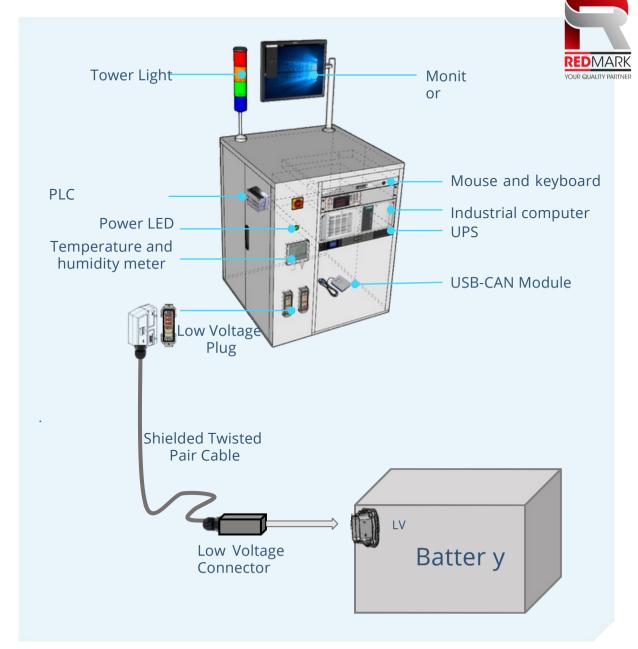


O2 Application



Application

- The equipment consists of a host computer system, electrical control system, high-precision testing instrument, low-voltage relay matrix box, display, signal light, temperature and humidity meter, test harness.
- Low-voltage test harness can quickly change the tooling to achieve product changeover through the connection of the reserved aviation plug and the battery product under test communication test.
- Customised long lifecycle butt plugs or standard manual butt plugs are available.







03 Product Selection



Product Selection



Parameter Item	Version	Normal							
Item			Pro	Normal	Pro	Normal	Pro	Customise	
Item				TS5510S	TS5250S	EOL101	EOL102		
	Specificity								
Main configurations	CAN/CANFD,HighSpeed	2Channels	4Channels	2Channels	4Channels	•	4Channels	0	
	isoSPI TranslatorЖ	0	0	0	0	0	0	0	
	Multimeter	61/2	71/2	61/2	71/2	61/2	71/2	0	
	AC internal resistance 0-300V,0.01% 0-3000Ω,0.5%,	a	0	0	۰	٥	a	۰	
	switching power supply 24V,96W	•	/	•	1	•	/	0	
	Low Voltage Programmable Power 0-30V,100w	a	•	۰	•	۰	•	0	
	High volateg matrix	o	•	0	•	0	•	0	
	Low volateg matrix	•	•	•	•	•	•	0	
	Self inspect-hardware/Mastor	•	•	•	•	•	•	•	
Software	Test Sequence/Test item Custom	•	•	•	•	•	•	•	
	Support DBC, Signal custom	•	•	•	•	•	•	•	
	Supports SCPI protocol	•	•	•	•	•	•	•	
	Supports custom protocol	•	•	•	•	•	•	•	
	Support for MES Port Jason/API	•	•	•	•	•	•	•	
	Local data save	•	•	•	•	•	•	•	
	Equipment self-test procedures	•	•	•	•	•	•	•	
Accessory	Low Voltage Wire≭	10m,	60V\2A	10m	, 60V\2A	10m	, 60V\2A	0	
	High Voltage Wire≭	10m, 3000V\1A			3000V\1A		3000V\1A	0	
	Manual hand pieceX	300times	/	300times	/	300times	/	0	
	Manual Customised	100,000 times(replace pin)	/	10,000 times(replace pin)	1	10,000 times(replace pin)	/	0	
	Automatic connect typeX	/	100,000 times(replace pin)	/	100,000 times(replace pin)	/	100,000 times(replace pin)	0	
	Low voltage Heavy-duty serialiser	500次, 64PIN,300V\10A		500times, 64PIN,300V\10A		500times,	64PIN,300V\10A	0	
	High voltage Heavy-duty serialiser	500次, 2PIN,3000V\1A		500times,	2PIN,3000V\1A	500times,	2PIN,3000V\1A	0	
General Parameter	Typical test items	Low-voltage communication; program brushing; program version verification; AC internal resistance measurement, total voltage measurement, fault judgement, single-unit voltage measurement; single-unit temperature measurement							
	typical application	BOL, EOL,Laboratory, Out-of-line sampling, Repair, and so on. CMC,BMC, BMB							
	Noise		70dB	< 70dB		< 70dB			
	Surrounding temperature Selection × Custom / Not appl		- 40°C	-10) ~ 40°C	-10			





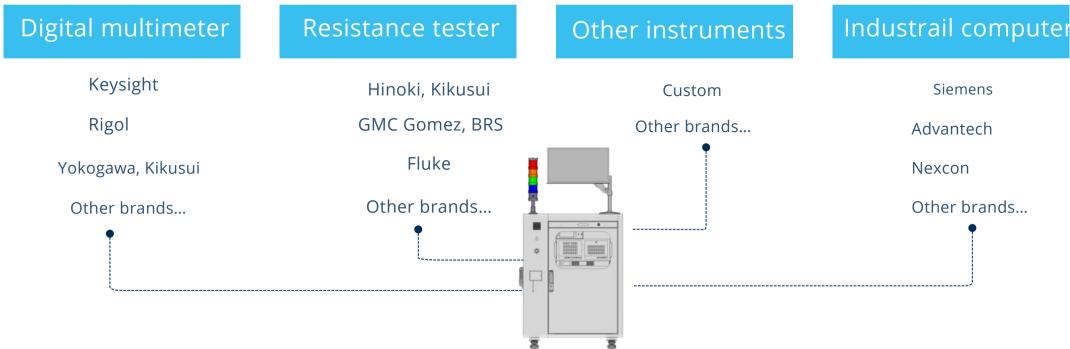
04 Compatibility



Compatibility



- Customers can choose the brand and model of instrument and hardware according to their own company's situation and local market.
- The equipment supports LXI and SCPI Protocol.It is compatible with the products of Polular manufacturers in Europe, the United States, Japan, Korea.



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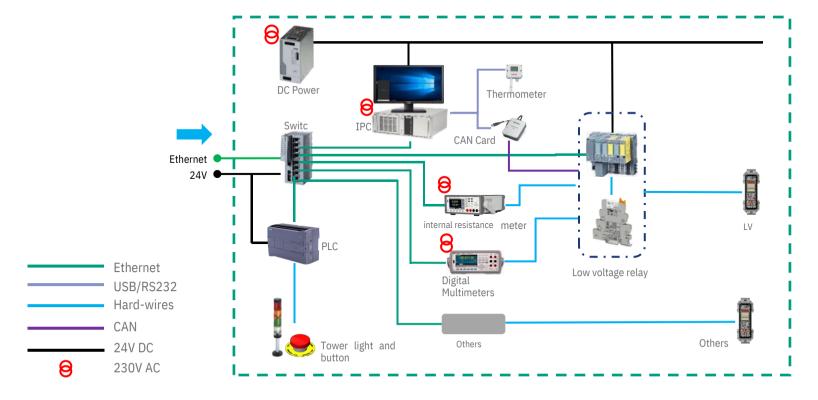
05 Working Principle



Working Principle



• The control circuit adopts advanced electronic components, mostly adopts communication mode instruments or sensors, rigorous layout to avoid interference and ensure the accuracy and reliability of the test.



Control loop diagram



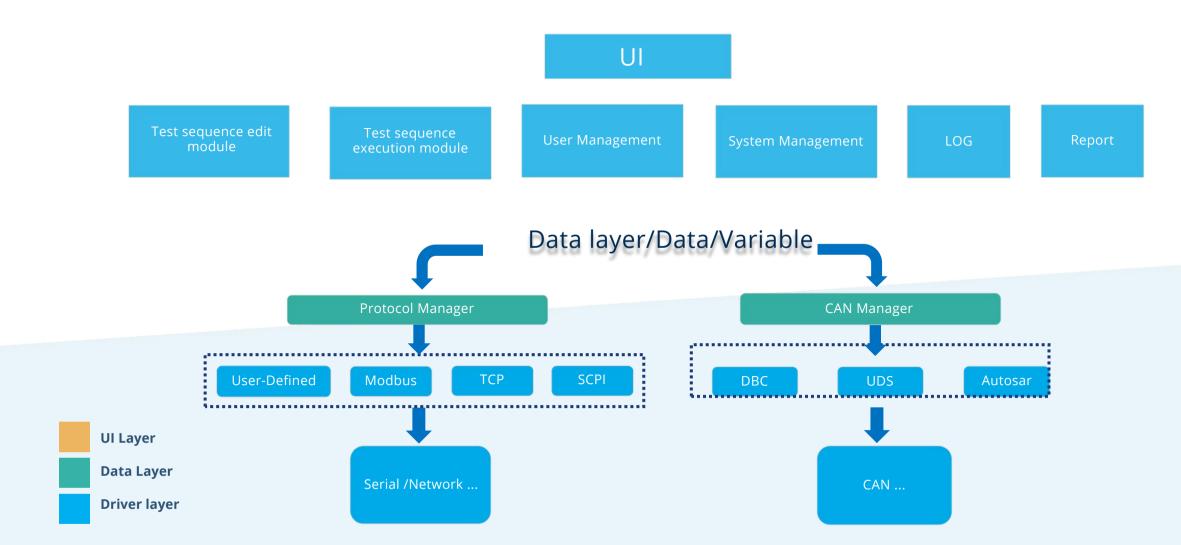


06 Software





Software Application1_Structure



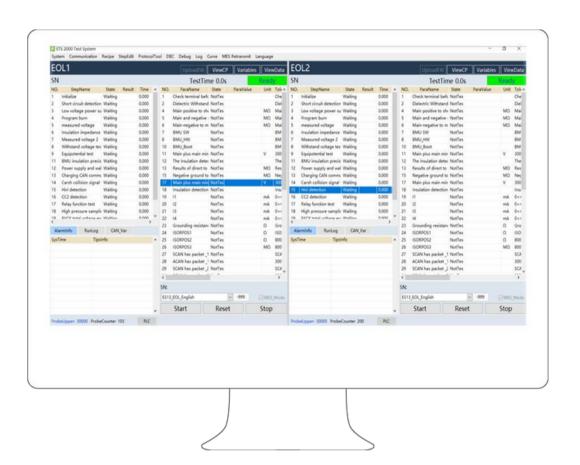
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Software Application 1_Interface

- Main window interface can start, stop, reset, as well as real-time display of test data and status, alarms, progress and so on.
- The interface supports singlechannel and dual-channel application scenarios.

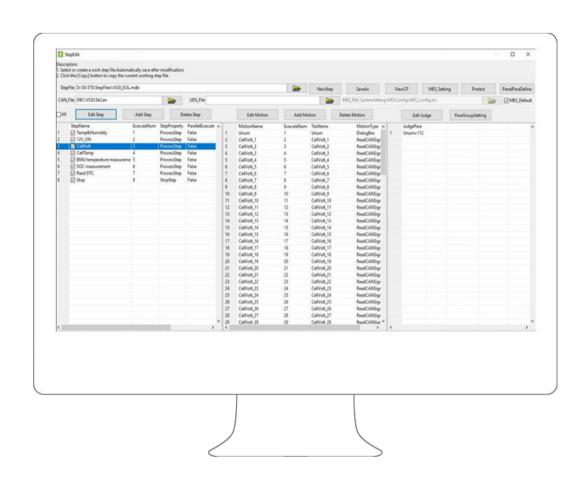








- •Custom Test Sequence: According to the actual needs of the project, edit the test sequence to achieve automatic testing, automatic recording of data, automatic generation of reports, etc.
- •Can/CanFD Communication: Support DBC, Autosar import, and UDS protocol. Support local CANlog recording. Support simulation simulation.
- •MES docking: support websevice, webAPI, HTTP and other protocols.
- •Local storage: Support local data storage, support Excel, TXT, Jason and other formats.
- •Test Sequence: Support editing test items, support editing test logic.



THANKS





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