



To prevent faults or quality issues in critical battery back-up applications caused by defects in stationary batteries, TEKON950 battery quality analyzer enables the user to diagnose and evaluate the performance and the degree of ageing by testing the conditions of individual batteries (500V max) in type of cell, module or pack. TEKON950 can handle virtually all battery testing (e.g. aged status of battery under test and the condition of a power system) in systems that use high-voltage battery packs, such as ESS, EV, HEV and PV as well as UPS.

Features

- Measures internal resistance of 500V max of batteries
- Measures voltages at battery (DC1000V)
- Measures voltage of UPS (AC500V)
- Measures ripple voltage, current and temperature
- Measures capacity of battery (Capacity)
- Diagnoses ageing of battery and predicts its use life (to determine timing for replacement)
- Can conduct history management of battery using 8MB memory
- Auto Hold and Data Storage
- Prints out measurement data in reports
- Transmits measurement data to remote locations (e-mail, server) using Mobile App
- Battery management using identification code

Power (battery)	7.2V/5.2Ah Li-ion, 12V/2.5A DC adaptor
Oata storage	8MB
Communication	Bluetooth Ver2.1 + EDR Class2
.CD display	4.0 monographic
perating temp/ umidity	0°C ~ 45°C, RH 85% max
torage temp/ umidity	-20°C ~ 60°C, RH 85% max
ompliant standards	IEC 61010-1 CAT III 500V Pollution Degree 2, EN61326-1:2013
imension	240(L)×198(W)×109(H) mm
eight/eight	1.4kg
ase Color	Black, Yellow, Orange

Electrical specifications

Measurement of resistance (Auto/Manual)			
Range	Resolution	Measurable current	Accuracy
3mΩ	1υΩ	100mA	±0.8%rdg±10dgts
30mΩ	10uΩ	100mA	
300mΩ	100uΩ	10mA	
3Ω	1mΩ	1mA	±0.5%rdg±10dgts
30Ω	10mΩ	0.1mA	
300Ω	100mΩ	0.1mA	

DCV (Auto/Mar	nual)	
Range	5, 50, 500V	
Resolution	1mV	
Accuracy	±0.5%rdg±5dgts	
ACV	3 3	

MU1	
Range	0~500V
Resolution	100mV
Frequency	40Hz~100Hz
Accuracy	±0.75%rdg±10dgts
Ripple voltage	9
Range	0~5V
Resolution	1mV

Accuracy	±5.0%rdg±10dgts
Measurement	of temperature
Range	-10°C ~ 100°C
Resolution	0.1°C
Accuracy	±1°C+2dgts

40Hz~10Hz

DC		
Range	4, 40, 400A	
Resolution	1mA	
Accuracy	±0.5%rdg±5dgts (+CT Tolerance)	
AC		
Range	4, 40, 400A	
Resolution	1mA	
Accuracy	±0.75%rdg±10dgts (+CT Tolerance)	
Measurement (of capacity (950B)	

Measurement of capacity (950B)		
Measuring method	Rated capacity, charge/discharge test	
Range	0 ~ 100%	
Measurable capacity	0 ~ 1200Ah	
Parameters displayed	Efficiency, capacity, Ah, Average current, Charge-discharge time. Graph	

Charge rate SOC (State of Charge) / 950B		
Measuring method	Charge-discharge test	
Range	0 ~ 100%	
Measurable voltage	500V max	
Cell under test	1.2V, 2V, 3.6V, 12V	

Accessories

Standard	Pin-type Kelvin Probe, Test Lead, Li-ion battery (7.2V/5.2Ah), 12V/2.5A adaptor, Zero-Bar, Portable bag, PC Program, User's Manual, clamp-on/950B
Optional	Extensible rod (500mm), clamp, Clip-type Kelvin probe



Frequency















40/400A Clamp

7 2V/5 2Ah Li-ion battery Pack

Zero Bar

Extensible rod (500mm)

Test Lead

Kevin Probe (Pin)

Kevin Probe (Clip)

Comparison of functions in TEKON950 Series

Function		TEKON950A	TEKON950B
Impedance	Scale	3mΩ~300Ω(6range)	3mΩ~300Ω(6range)
	Accuracy	±0.8%	±0.8%
	Max Test Voltage	200V	400V
DC/V		0~500V	0~500V
AC/V		0~500V	0~500V
Ripple Voltage		0~5V	0~5V
DC/A(Floating Curre	ent)	4A/40A/400A	4A/40A/400A
Ac/V(Ripple Current	:]	4A/40A/400A	4A/40A/400A
Temperature		NTC	NTC
	Trend	0	0
Analyzer	Change time	0	0
Capacity		×	0
Data record		8MB	8MB
PC Interface		Bluetooth	Bluetooth
External Interface		Mobile App	Mobile App
Auto Hold		0	0
Auto Record		0	0