

Multifunction Safety Compliance Analyzer SME1180S Series



Advance Features

- Five-in-one integrated system, single machine to achieve all the safety testing needs
 - 1 High Power AC Withstanding Voltage Test
 - 2 DC withstanding Voltage test
 - 3 Insulation Resistance test
 - 4 Ground Resistance Test
 - 5 Conductivity Test
- 500VA power AC Withstand Voltage design
- Insulation resistance test up to 6kV
- Single screen display test mode, time, voltage, current, resistance value, test steps
- Open short circuit detection OSC
- ARC detection ARC function
- Crash Voltage test function
- List display function: Simultaneously display the test results of multi-step settings and sequential execution
- Storage: 100 files, 50 steps/file
- 7-inch capacitive touch screen, 800×480 resolution

Model		SME1180S				SME1181S				
Scanning module		SM1180S-004	SM1180S-001	SM1180S-002	SM1180S-003	SM1180S-004	SM1180S-001	SM1180S-002	SM1180S-003	
Function & Channels	High Voltage : ACW, DCW, IR	4	8	8	-	4	8	8	-	
	CK Contact Check	Y	Y	Y	N	Y	Y	Y	N	
	Ground Resistance (GB)	Channel	4	8	-	8	4	8	-	8
		Wire	Four Wire	Two Wire	-	Four Wire	Four Wire	Two Wire	-	Four Wire
Conduction		Y								
Pressure Resistance Test										
Output Voltage	AC	Range	0.05 ~ 5.0kV							
		Waveform	50/60Hz ± 0.1% Sine Wave							
		Output Power	500VA (5.0kV/100mA)				200VA			
	DC	Range	0.05 ~ 6.0kV							
		Output Power	150VA (6.0kV/25mA)							
	Load Variation Rate		± (1% set value + 10V) (Rating Power)							
	Resolution		2V							
Accuracy		± (1% set value + 5V)								

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Current Test	AC	Range	V ≤ 4kV	0.001mA ~ 120mA			0.001mA ~ 40mA			
			V > 4kV	0.001mA ~ 100mA			0.001mA ~ 40mA			
		Resolution	0.001mA							
		Accuracy	120mA	0.1mA ~ 120.0mA ± (1% Reading + 0.6mA)						
			30mA	0.01mA ~ 29.99mA ± (1% Reading + 0.15mA)						
	DC	Range	V ≥ 1.5kV	0.0001 ~ 25.00mA			0.0001mA ~ 20mA			
			V < 1.5kV	0.0001 ~ 20.00mA			0.0001mA ~ 20mA			
		Resolution	0.1μA							
		Accuracy	25mA	0.01mA ~ 25.00mA ± (1% Reading + 0.12mA)						
			3mA	0.001mA ~ 2.999mA ± (1% Reading + 0.015mA)						
Time Setting	Testing Time		0.3 ~ 999s, 0 for continuous test							
	Rising Time		0.1 ~ 999s, 0 for closed							
	Falling Time		0.1 ~ 999s, 0 for closed							
	Waiting Time		0.1 ~ 999s, 0 for closed (DC withstanding voltage only)							
Arc Detection	AC		1.0mA ~ 20.0mA			1.0mA ~ 20.0mA				
	DC		1.0mA ~ 10.0mA							
Maximum short-circuit current (AC test only)		200mA				80mA				
Fast Discharge Function		Automatic discharge after test (DCW)								
Insulation Resistance Test										
Voltage	Outputs		DC : 0.05 ~ 6.0kV							
	Resolution		2V							
	Accuracy		± (1% Reading + 5V)							
Resistance	Test Range		0.05MΩ ~ 50.0GΩ							
	Test Accuracy	V ≥ 1kV	1MΩ ~ 1GΩ ± (3% Reading + 1M)							
			1GΩ ~ 10GΩ ± (7% Reading + 0.2G)							
			10GΩ ~ 50GΩ ± (10% Reading + 0.5G)							
	Test Accuracy	500V ≤ V < 1kV	0.1MΩ ~ 1GΩ ± (3% Reading + 1M)							
			1GΩ ~ 10GΩ ± (7% Reading + 0.2G)							
10GΩ ~ 50GΩ ± (10% Reading + 0.5G)										
Time Setting	Testing Time		0.3 ~ 999s, 0 for continuous test							
	Rising Time		0.1 ~ 999s, 0 for closed							
	Falling Time		0.1 ~ 999s, 0 for closed							
	Waiting Time		0.1 ~ 999s, 0 for closed							
Fast discharge function		Automatic discharge after test								
AC Ground Resistance Testing										
Output Current	Range		1.00 ~ 40.00A							
	Resolution		0.01A							
	Accuracy		± (2% set value + 2 words)							
Test Voltage	Range		3.00 ~ 8.00V							
	Resolution		0.01V							
	Accuracy		± (2% set value + 3 words)							
Test Frequency		50/60Hz ± 0.1%								

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Output Adjustment Ratio		± (1% output value + 0.02A)							
Resistance Test	Range	1.00 ~ 10.00A	0 ~ 600mΩ						
		10.01 ~ 30.00A	0 ~ 200mΩ						
		30.01 ~ 40.00A	0 ~ 150mΩ						
	Accuracy	1.00 ~ 3.00A	0 ~ 600mΩ ± (3% Reading + 3words)						
		3.01 ~ 10.00A	0 ~ 600mΩ ± (2% Reading + 2words)						
		10.01A ~ 30.00A	0 ~ 200mΩ ± (2% Reading + 2words)						
		30.01A ~ 40.00A	0 ~ 150mΩ ± (2% Reading + 2words)						
Testing Time		0.5 ~ 999s, 0 for continuous test							
Conductivity Test									
Test Current	0.1A	0.00 ~ 10.00Ω							
	0.01A	10.1 ~ 100.0Ω							
	0.001A	101 ~ 1000Ω							
	0.0001A	1001 ~ 10000Ω							
Resistance Test Accuracy	0 ~ 1000Ω	± (1% Reading + 3words)							
	1001 ~ 10000Ω	± (1% Reading + 10words)							
Testing Time		0.3 ~ 999s, 0 for continuous test							
OSC Open/short circuit detection									
Sampling standard capacitance range		0.001 ~ 40nF							
Open Circuit Judgment Range		10% ~ 100%							
Short Circuit Judgment Range		100% ~ 500%							
Safety and Security Functions									
Electric shock protection		0.5mA ± 0.25mA selectable : ON or OFF							
Startup protection interlock		High Voltage outputs is allowed only if the pin is connected low							
Panel Operated Protection		Key lock							
Alarm Indication		Pass : Short tone, Green light, Fall :long tone, Red Light							
Synchronized output test for withstand voltage and grounding		5kVac/30mAac and 30Aac/150mΩ							
Storage and Interface									
Internal Storage		Up to 100 files can be stored and each file can be edited with 50 steps							
Standard Interface		RS232, USB DEVICE, USB HOST, LAN, HANDLER							
Optional Interface		GPIB							
General Specifications									
Parameter Comparison Temperature		18°C ~ 28°C, Humidity : 30% ~ 70% RH							
Normal Operating Temperature		0°C ~ 45°C, Humidity 20% ~ 90% RH							
Storage Ambient Temperature		-10°C ~ 55°C , Humidity <80% RH							
Power Supply		100V ~ 240VAC, 47Hz ~ 63Hz							
Power		No load <100W, Rated Power : 1200W							
Dimension (W X H X D)		430 X 132 X 550mm							
Weight		40kg				38kg			
Accessories		Mains Cord, Test Fixture							

Subject to change

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