



SA2200 Specification

• Measurement

Measurement		Measurement Range	Resolution	Accuracy
Voltage/Current/Frequency				
Vrms(AC+DC)		1 ~ 120Vrms	0.001Vrms	Vnom>100V: ±(Vnom×0.1%) Vnom<100V: ±0.1V
		120Vrms~400Vrms	0.01Vrms	
		400~1000Vrms	0.1Vrms	
Vpk		1 ~ 1400Vpk	0.01Vpk	±0.5% of nominal voltage
V(Crest Factor)		1.0 ~ >2.8	0.01	±5%
Arms (AC)	10mV/A	0~150A	0.1A	±0.1%±0.5A
	1mV/A	1~2000A	1A	±0.1%±5A
	65mV/1000A	10~6000A	0.01kA	±0.1%±50A
A(Crest Factor)		1 ~ 10	0.01	±5%
Frequency		42.5~57.5 (50Hz nominal)	0.01Hz	±0.01Hz
		51~69 (60Hz nominal)	0.01Hz	±0.01Hz
		320~480 (400Hz nominal)	0.01Hz	±0.01Hz
Dips & Swells				
Vrms1/2		0 ~ 200% of nominal voltage	0.01Vrms	±0.2%
Arms1/2		depends on current clamps	Ref to Arms	±1%±5counts
Harmonic (IEC61000-4-7)				
Harmonic Number		1 ~ 100(50/60Hz) (IEC61000-4-7) 1~12(400Hz)		
Harmonic Voltage %f		0.0 ~ 100.0%	0.01%	±0.1% ± nx0.1%
Harmonic Current %f		0.0 ~ 100.0%	0.01%	±0.1% ± nx0.1%
THD		0.0 ~ 100.0%	0.01%	±2.5%
Phase		-180° ~180°	0.1°	± nx0.1°
Power and Energy				
P, S, Q1		Max. 6000MW	0.1kW	±1%±10 digits
PF & cosΦ		0 ~ 1	0.01	±0.01
kWh, kVAh, kvarh		depends on nominal voltage and current clamps		±1%±10 digits
Flicker (IEC61000-4-15)				
Pst(10min)/Plt (2 hrs)		0.00 ~ 20.00	0.01	±5%
Unbalance				
Voltage		0.0 ~ 20.0%	0.1%	±0.1%
Current		0.0 ~ 20.0%	0.1%	±1%
Voltage Phase		-360° ~ 0°	0.1°	±0.1°
Current Phase		-360° ~ 0°	0.1°	±0.5°
Voltage Transient				
Vpk		±6000Vpk	0.01V	±15%
Vrms		10 ~ 1000Vrms	0.01V	±2.5%
Min. Test Time		5us		
Inrush Current				
Arms		depends on current clamps	Ref to Arms	±1%±10counts
Inrush Duration		1 ~ 32min selectable	10ms	±20ms
Mains Signaling				
Signaling Frequency		60-3000Hz	0.1Hz	
Relative V%		0%~100%	0.10%	±0.4%
Absolute V3s (3s average)		0.0 ~ 1000V	0.1V	±5% of Nominal voltage
Logger				
Recording		user-defined parameters for 4 phases at the same time		
Memory		Data stored in Micro SD card, 32GB		
Duration Time		2 hrs to 1 year, depends on the recording items and time interval		
Interval		1s to 60 minutes		
Monitor				
Support EN50160 in default or user-defined standard				

