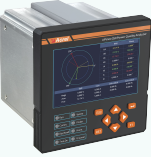


PRODUCT OVERVIEW

Power Quality Analyzer utilizes a high-performance multi-core platform and an embedded operating system. It integrates functions such as harmonic analysis, waveform sampling, voltage dip/swell/interruption detection, flicker monitoring, voltage unbalance monitoring, event recording, and measurement control.The APView complies with standards such as IEC 61000-4-30 Ed3.1 Class A, IEC 62053 Class 0.2S. It is suitable for 110kV and below substation and is widely used in industries such as semiconductor, petrochemical, steel, hospitals, data centers, and transportation buildings, as well as in renewable energy like photovoltaic, energy storage, and wind power.

Technical Characteristics

				
Type		APView500	APView400	APView350
LCD		5 inches, color	5 inches, color	4.3 inches, color
Power supply		AC/DC88V~264V, DC48V	AC/DC88V~264V, DC24/48V	AC/DC88V~264V, DC24/48V
Sampling frequency 50/60 Hz		51.2kHz	51.2kHz	51.2kHz
AC input		8*U+8*I	4*U+4*I	4*U+4*I
Voltage input		0~456V AC	0~680V AC	0~680V AC
Current input		0~6A AC	0~6A AC	0~6A AC
Digital inputs/outputs		22DI+16DO	5DI+5DO	5DI+3DO
Memory size		32GB	32GB	32GB
IEC 61000-4-30		Class A	Class A	Class A
Accuracy	Voltage ^[1]	±0.1% U _N	±0.1% U _N	±0.1% U _N
	Current ^[2]	0~0.1I _N : ±0.5%	0.01I _N ~0.05I _N : ±1%	0.01I _N ~0.05I _N : ±1%
		>0.1I _N : ±0.1%	>0.05I _N : ±0.5%	>0.05I _N : ±0.5%
	Frequency	±0.001Hz	±0.001Hz	±0.001Hz
Steady	Power	±0.2%	±0.2%	±0.2%
	Voltage deviation	■	■	■
	Frequency deviation	■	■	■

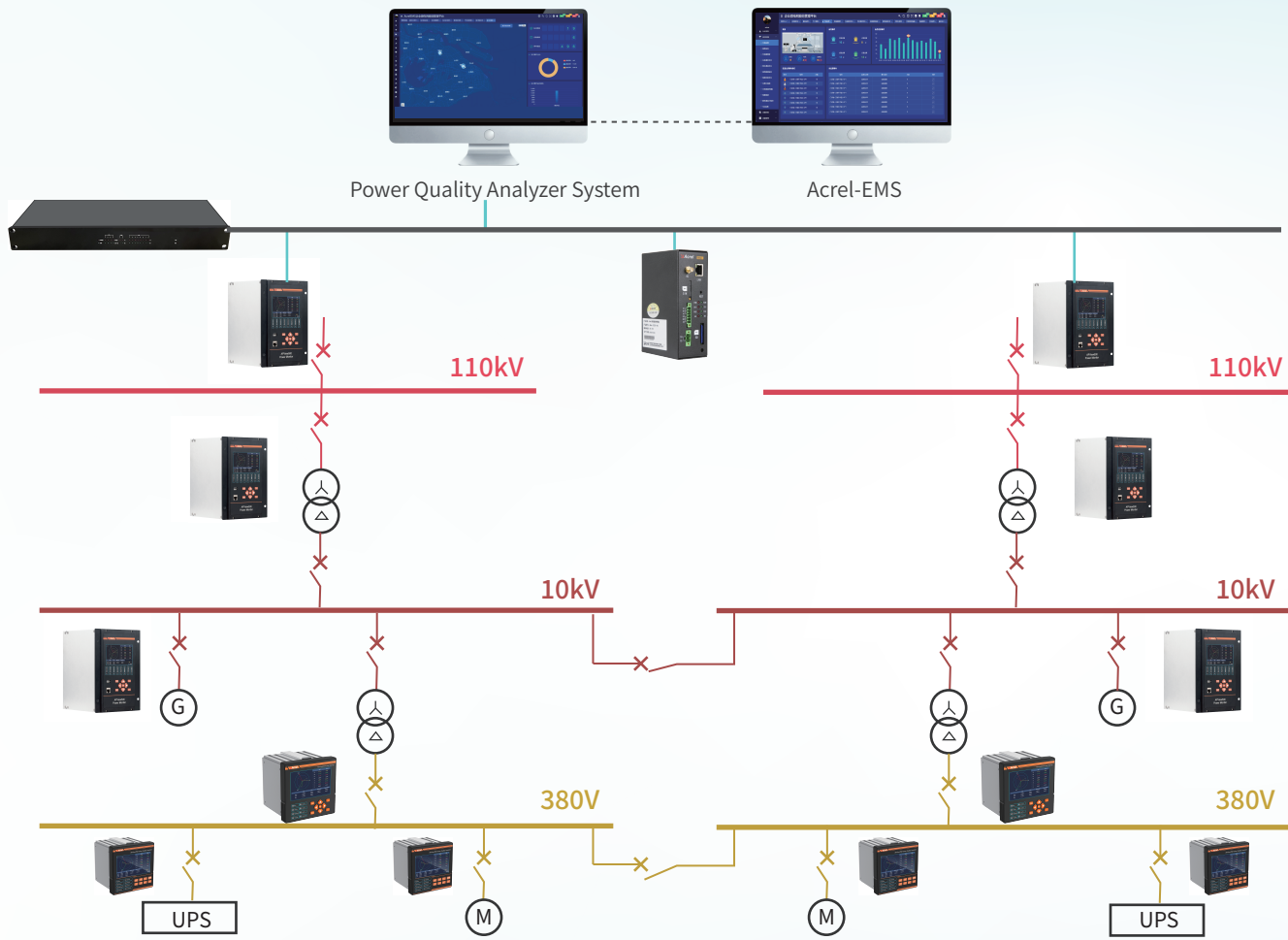
Type		APView500	APView400	APView350
Steady	Current Unbalance	■	■	■
	Voltage Unbalance	■	■	■
	Voltage fluctuation	■	■	■
	Flicker	■	■	■
	Harmonic	2~63 rd (THD,TDD,Crest-factor, K-factor)	2~63 rd (THD,TDD,Crest-factor, K-factor)	2~63 rd (THD,TDD,Crest-factor, K-factor)
	Interharmonic	0.5 th ~62.5 th	0.5 th ~62.5 th	0.5 th ~62.5 th
	High-frequency harmonic	2.5k~8.9kHz	2.5k~8.9kHz	2.5k~8.9kHz
	DC component	—	■	■
	Rapid voltage change	■	■	■
Temporary	Inrush current	■	■	■
	Voltage dip	■	■	■
	Voltage interruption	■	■	■
Transient	Voltage swell	■	■	■
	Transient Voltage	20μs	20μs	○
	Transient Current	20μs	20μs	○
Power quality assessment		■	■	■
ITIC		■	■	■
SEMI F47		■	■	■
Disturbance Direction Detection		■	■	■
Real-time waveform		■	■	■
Web server		■	■	■
FTP Server		■	■	■
Data and Event Recorders	Fault recording	■	■	■
	Timed recording	■	■	■
	Manual recording	■	■	■
	COMTRADE	■	■	■
	PQDIF	■	■	■
	SOE	5000	5000	5000
Rear Port	RS-485 port	3	2	2
	Ethernet port	4	2	2
	USB	■	■	■
Timing	IRIG-B	■	■	■
	SNTP	■	■	■
Protocol	Modbus RTU	■	■	■
	Modbus TCP	■	■	■
	IEC 61850	○	○	○

Note: ■ means with this function, ○ means the function is optional, —means without this function.

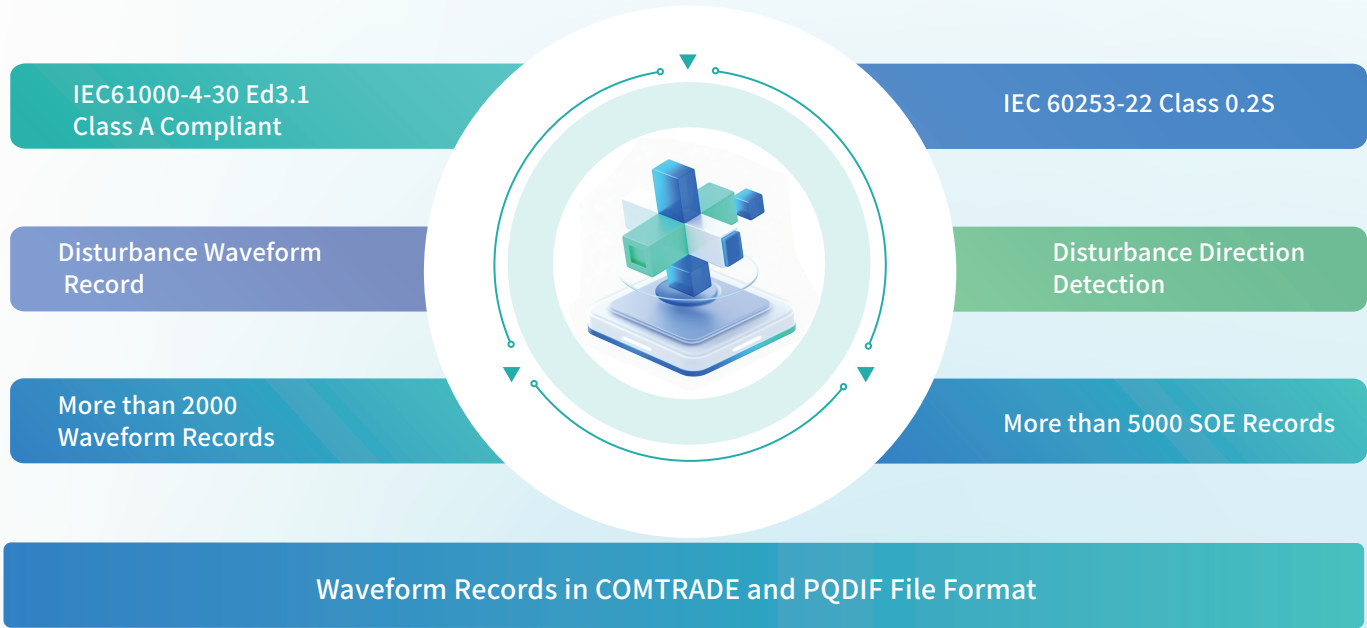
[1] Measurement uncertainty calculation: $\frac{U-U_{\text{ref}}}{U_N} \times 100\%$,
U:Measured Voltage ; U_{ref} :Given Voltage ; U_N :Nominal Voltage

[2] Measurement uncertainty calculation: $\frac{I-I_{\text{ref}}}{I_N} \times 100\%$,
I:Measured Current ; I_{ref} :Given Current ;

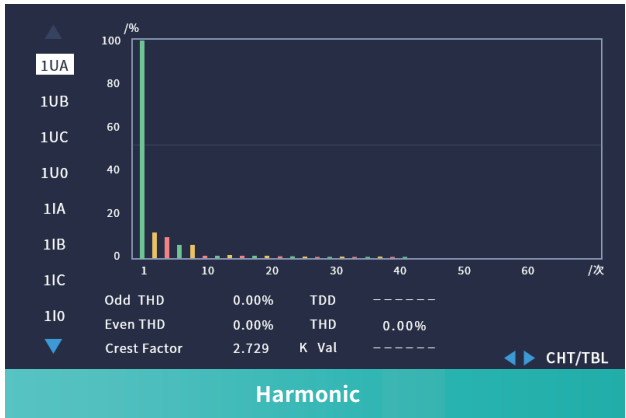
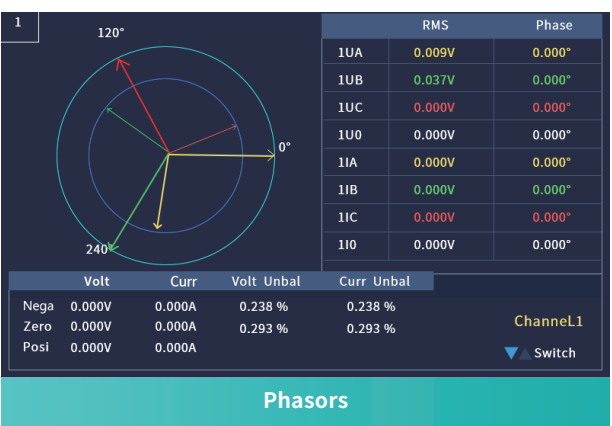
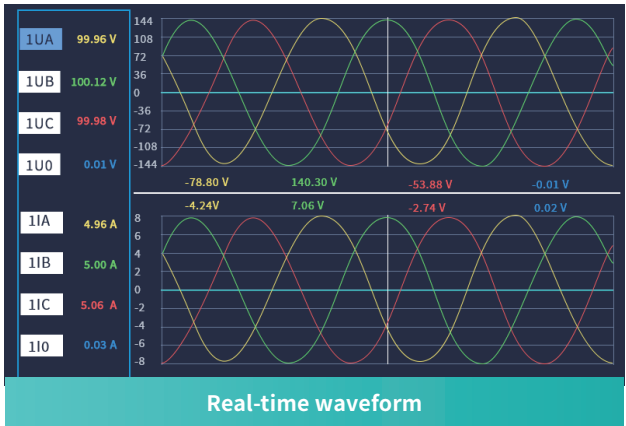
Application



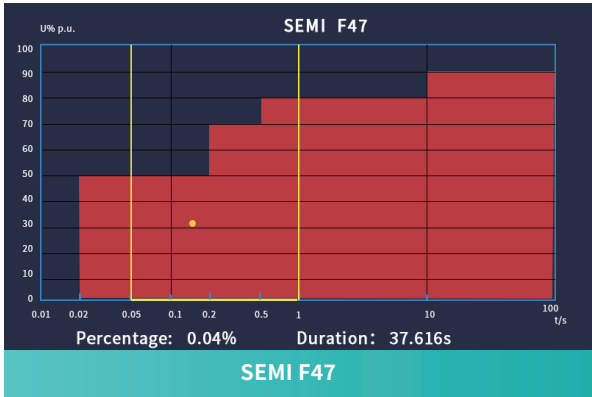
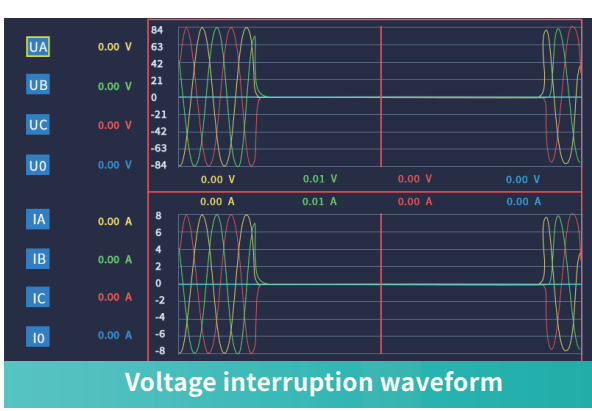
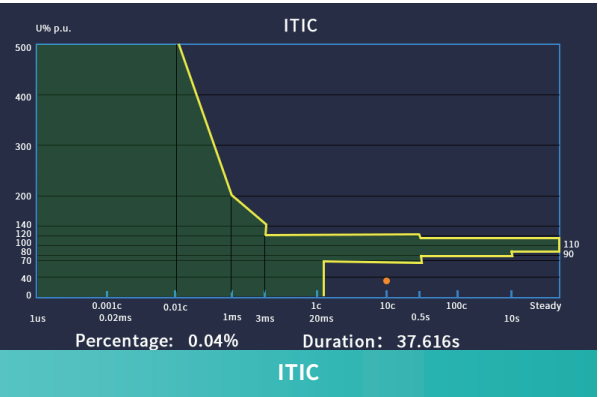
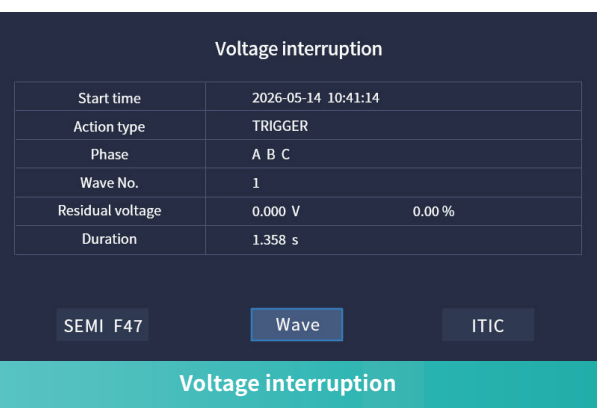
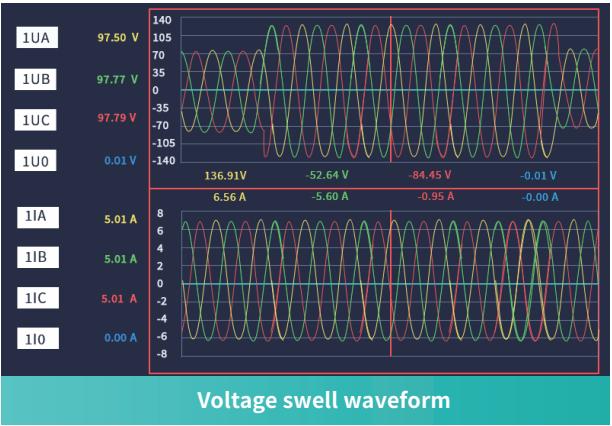
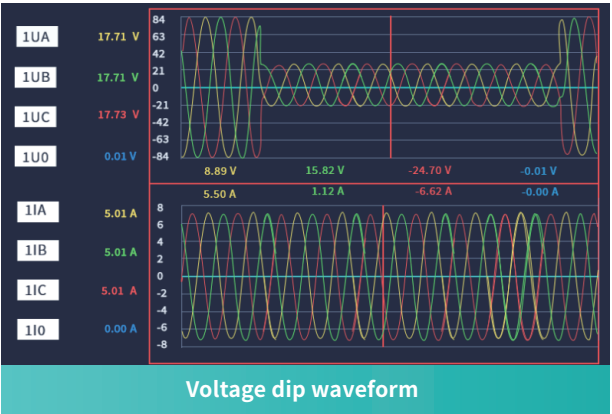
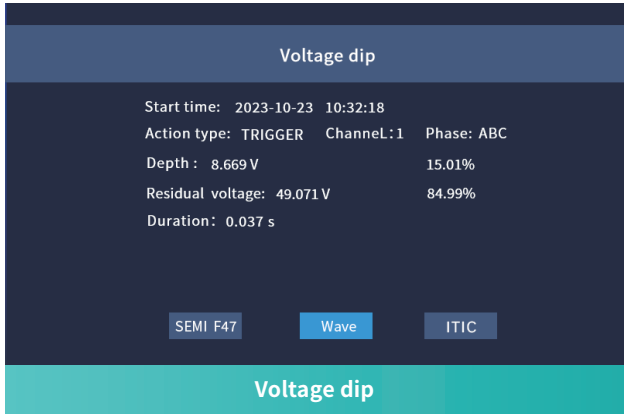
Power Quality Features



» Data and Event Records



Fluctuation			Flicker	
	Rate(cnt/min)	Value(%)	Pst(10m)	Plt(2h)
1UA	0.000	0.000	0.000	0.000
1UB	0.000	0.000	0.000	0.000
1UC	0.000	0.000	0.000	0.000
1U0	---	---	---	---
2UA	0.000	0.000	0.000	0.000
2UB	0.000	0.000	0.000	0.000
2UC	0.000	0.000	0.000	0.000
2U0	---	---	---	---



» Certificate



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[Stock Code: 300286.SZ]



Power Quality Analyzer

Acrel Electric Co., Ltd.

Innovation

Efficiency

Unity

Integrity