

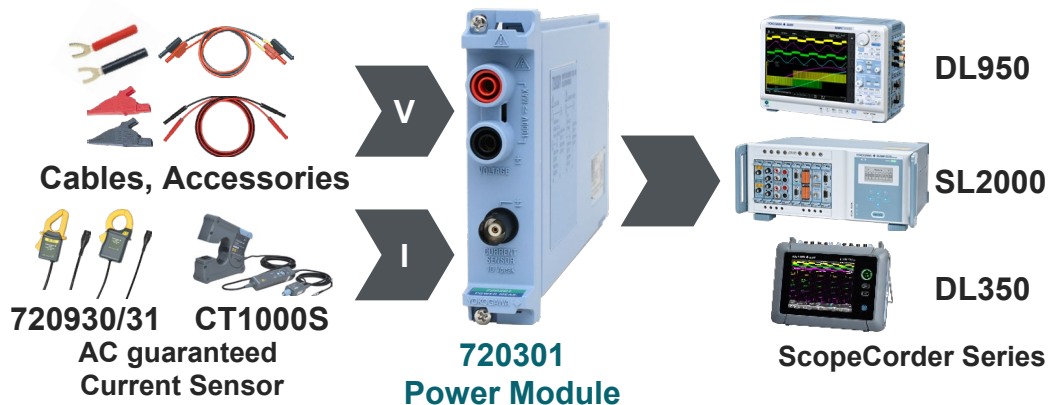
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Power Measurement

1 MS/s 16 bit Isolation Module

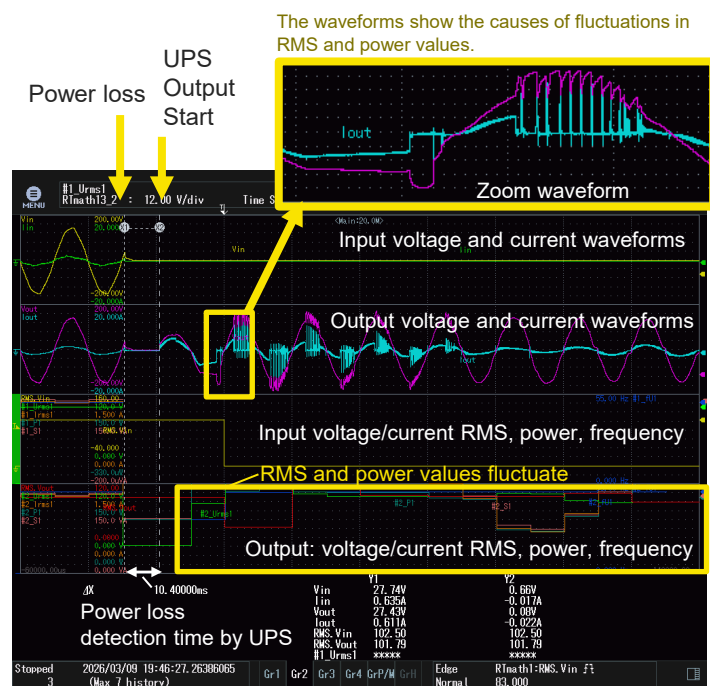
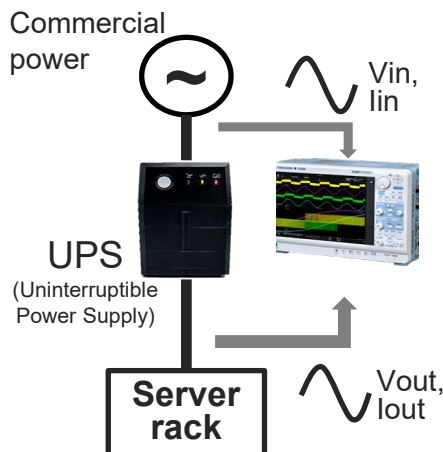
Achieve accuracy-guaranteed power measurement with the ScopeCorder !

- ✓ Electrical waveforms + accuracy-guaranteed power + heat, sound, acceleration, CAN FD, LIN, SENT, control signals and more synchronously
- ✓ Consolidate a power meter and a waveform recorder into a single ScopeCorder (1 unit), analyzing not just power changes but also “why they happened” at the same time



Application Examples

- UPS operation evaluation
- Synchronous measurement of power and NVH
- Transient power measurement of industrial equipment
- PV grid evaluation
- xEV fast-charging evaluation
- Motor / inverter evaluation



- Combined power accuracy 0.35% meeting the Class 0.5 instrument accuracy required by product standards. (50/60 Hz, CT1000S when used)
- Easily measure the time from power-loss detection to UPS output start using cursors.
- Automatically measure the average power over a specified interval and the recovery time with the measure function.
- Infer and verify the cause of power fluctuation from waveforms measured synchronously with the power value.

DL950/SL2000/DL350 – DC/AC amplitude accuracy guaranteed

Main Specifications of the Power Module

Frequency band (–3 dB)	DC to 300 kHz	
Max. sampling rate	1 MS/s	
A/D resolution	16 bit	
Voltage amplitude, current amplitude*² basic accuracy	DC	± 0.14% (0.07% of rdg. + 0.07% of rng.)
	50/60 Hz	± 0.10% (0.05% of rdg. + 0.05% of rng.)
Number of input channels	Voltage direct input: 1, current sensor input: 1	
Input connector	Voltage: direct input terminal, Current sensor: BNC connector (isolated type)	
Inter-channel skew	Voltage to current: 100 ns or less (typical value. 0.04°@1 kHz, 0.002°@50 Hz)	
Max. input voltage	Voltage: 1000 Vrms (1000 Vdc or 1414 Vpeak Max.) Current sensor: 10 V (±10 Vpeak Max.)	
Max. rated voltage to earth	1000 Vrms (CAT II), 600 Vrms (CAT III)	

DL950/SL2000 – RMS and power accuracy guaranteed*¹

Power analysis specifications (when using DL950/SL2000 with /G05 or /MT1 option)

Voltage RMS, current RMS*² basic accuracy	DC	± 0.14% (0.07% of rdg. + 0.07% of rng.)
	50/60 Hz	± 0.10% (0.05% of rdg. + 0.05% of rng.)
Power*² basic accuracy	DC	± 0.14% (0.07% of rdg. + 0.07% of rng.)
	50/60 Hz	± 0.14% (0.07% of rdg. + 0.07% of rng.)
Frequency accuracy	0.1 Hz to 100 kHz	± (0.1% of rdg. ± 0.1 mHz)
Max. number of power analyses	2 systems (single-phase or three-phase)	
Min. analysis period	0.1 ms	
Line filter function (bandwidth limit)	FULL/40 kHz/4 kHz/400 Hz/AUTO	
Axis sensitivity (range) setting range	Voltage: 20 mV/div to 200 V/div (1-2-5 steps) Current sensor: 5 mA/div to 1 A/div (1-2-5 steps) (at 1 V/1 A)	

*1: /G05 or /MT1 option is required. *2: Add the accuracy of the current sensor used to the values in the table.

Notes

- Direct current input measurement is not possible. Please prepare a separate current sensor.
- When using DL350, the power values can be computed by combining waveform computation with automatic measurement of waveform parameters, or by harmonic analysis, but accuracy is not guaranteed.
- When using DL950/SL2000 without /G05 or /MT1 option, the power values can be computed by combining waveform computation with automatic measurement of waveform parameters, but accuracy is not guaranteed.

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