IWATSU

Datasheet

SE-6000 ISOLATION UNIT SE-6010

Performs waveform measurements with high resolutions and in safe manner under high voltage environment in systems that isolate input/output terminals through optical insulation

Measuring Targets

- Contributes to the safety of high voltage test environments
- Increases measurement quality of differential probes
- Measures noise resistance very effectively
- Supports wide range of objects such as lightning surge and charging tests etc.
- Measures Distant points (Switches, Transportation equipment etc.)
- Analyzes failure factors of multiple abnormal operations happening at spread and distant places.

(The Isolation Unit can be set at each place, up to 4 sets in total.)



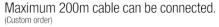


ISOLATION AMP SE-6000







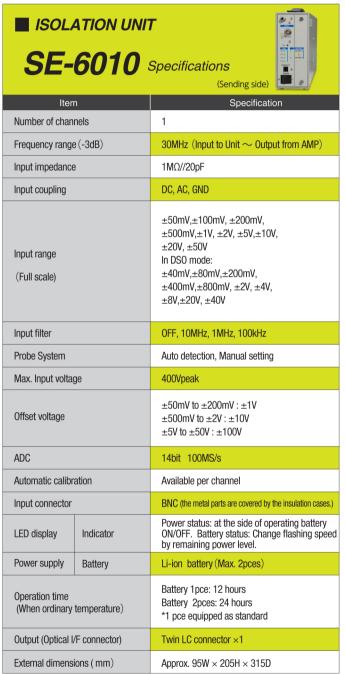




Main Specifications

- High resolution 14bit
- Wide temperature range -15 to 50°C (SE-6010)
- Frequency band width 30MHz Can be used with one or two batteries (24 hours operation with two units)
- Probes: Supports automatic detection of attenuation rate
- Automatic calibration for amplitude and offset available
- Optical fiber that is resistant to bending stress is adopted, and also supports wide range of cable length: 3m, 10m, 50m, or 200m.
- LED where the Battery remaining time is displayed reminds us of the replacement time.

- SE-6010 ISOLATION UNIT (sending side) is high resolution equipment for waveform measurement in high voltage environment, using voltage/current probes and etc.
- As the Unit works with batteries, measurement of low distortion can be done with reduced common mode noise.
- Measured waveforms are immediately transferred to the Amplifier side through optical fiber.
- Since the Isolation Unit and the Amplifier Unit are insulated electrically and completely by optical fiber, safe measurement in high voltage / high current environment can be achieved.
- Max. 4 sets of Isolation Units can be connected to one Amplifier, and the 4 channels' analog waveforms output from the Amplifier can be used for various kinds of analysis besides waveform observation with oscilloscopes.



SE-6000 Specifications (Receiving side)		
Item	Specification	
Number of channels	4	
DAC	14bit 100MS/s	
Output voltage (Impedance)	$\begin{array}{l} \pm 1 \text{V} \left(50 \Omega \text{ loading}\right) \\ \text{In DSO mode:} \\ \pm 800 \text{mV} \left(50 \Omega \text{ loading}\right) \\ \pm 1.6 \text{V} \left(1 \text{M} \Omega \text{ loading}\right) \end{array}$	
Monitor display	4.3" Color LCD back light : Select High / Low	
Auto range	Range, Offset auto detection	
Input (Optical I/F Connector)	Twin LC connector ×4	
Output	BNC×4	
External interface	USB (for Save and Recall) LAN (for Remote recall)	
External dimensions (mm)	Approx. 226W × 100H × 366D	
Options		
Optical fiber	3m, 10m, 50m (Outdoor specifications), 200m (Custom order)	
Battery	Li-ion battery (1pce equipped as standard)	
Battery charger	2- bay type	

Constitution

Product Name		Type name
ISOLATION AMP		SE-6000
ISOLATION UNIT		SE-6010
Battery charger (2-bay type)		SE-603
Battery		SE-601
Optical fiber cable	3m	SE-605
	10m	SE-606
	50m (Outdoor spec)	SE-607
	200m	Custom order



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