

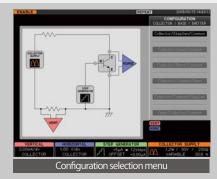
Curve Tracer CS-3000 Series

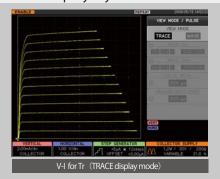
Suitable for various semiconductor specification masurement such as IGBTs, MOSFETs, transistors and diodes, etc.

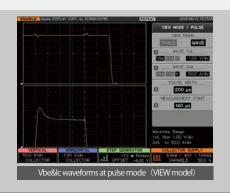
- Maximum peak voltage at 3000 V
- Maximum peak current at 1000 A (High-current mode including CS-3200 and CS-3300)
 - CS-3200 (Maximum at 400A)
 - CS-3300 (Maximum at 1000A)
- Equipped all models with LEAKAGE mode (Cursor resolution 1pA)
- USB port for display hardcopy, waveform data (CSV format) and measurement setup SAVE/RECALL
- LAN interface for Remote Control



Easy to use display layout for all models







| Consector Conse | Specifications | | CS-3100 | | CS-3200 | | CS-3300 | | |
|--|----------------------|-----------------|---|---|---|---|-----------------------|-----------------|--|
| High voltage High current mode? Pulse High current mode? Pulse | Collector sup | pply | | | | | | | |
| Maximum peak power 120mW, 1.2W, 12W, 12W, 12W, 30W note)390W can be selected excluding max, peak votage at 3,000V range constitution electric 2000 1600 points and peak pulse current 3,000 V (2,500V at AC) 175mA (150mA) 3,000 V (2,500V at AC) 175mA (150mA) 3,000 V (2,500V at AC) 175mA (150mA) 175mA (150mA) 3,000 V (2,500V at AC) 175mA (150mA) 175mA (1 | _ | | | High voltage | mode: AC, +/- Full w | /ave rectifing, +/- DC | , +/- LEAKAGE | | |
| High current mode (400W,AkW) High current mode (400W,AkW) High current mode (400W,AkW) Name | | | | | | | | | |
| High current mode (400W,AkW) High current mode (400W,AkW) High current mode (400W,AkW) Name | Maximum peak | power | 120 | mW、1.2W、12W、120W、390\ | W note)390W can l | | | at 3,000V range | |
| Time A (150mA) 3,000 V (2,500V at AC) 750mA (1.5A) 300V 750mA (1.5A) 750m | consumption se | election | | _ | High current mo | | | | |
| Pulse width / measurement points Starzy capacitance compensation between Collector and GND by hardware at high-voltage mode. Software compensation is also available. Most, peak current Most, peak voltage 1,000 A 40V 40A | | | | Maximum peak current(Maximum peak pulse current) Maximum peak voltage | | | | | |
| TSOM (1.5A) 300V | I Cala cales as as | | | 75mA (150m <i>A</i> | A) | 3,000 | 3,000V (2,500V at AC) | | |
| Stay capacitance compensation Stay capacitance compensation between Collector and GND by hardware at high voltage mode. Software compensation is also available. Max. peak voltage 1.000 | High voltage mode | | | 750mA (1.5A) | | 300V | | | |
| High current mode (only for pulse) | | | 7.5A (15A | | 30V | | | | |
| High current mode (only for pulse) | Looping componention | | Stray canacitance compensation between Collector and GND by ha | | | dware at high voltage mode. Software compensation is also available | | | |
| High current mode (only for pulse) | 200ping compe | sacion | Juay Co | pacial lee compensation serveen co | ilector di la di 10 by Flare | avare acriigir voltage iri | | | |
| Pulse width / measurement points | | | | | Max. peak current | Max. peak voltage | | | |
| Pulse width / measurement points Amplitude range: 50nA to 200m A at 1-2-5 step Maximum data points 20 to 1000 points can be set per each traces. Step generator Current mode Maximum curret: 10times of STEP AMPLITUDE setting, Offset: +/- 10times of STEP AM | | | | _ | 400A | 40V | | | |
| Pulse width / measurement points Pulse width is variable from 50 μ s to 400 μ s at 10 μ s resolution, Measurement point can be set. | (only | y for pulse) | | | 40A | 40V | | | |
| Measurement points Measurement point can be set. | | | | | | | 40A | 40V | |
| Maximum data points 20 to 1000 points can be set per each traces. | | | | _ | | | | | |
| Current mode | <u> </u> | | · | | | | | | |
| Current mode Amplitude range: 50nA to 200mA at 1-2-5 step Voltage mode Maximum curret: 10times of STEP AMPLITUDE setting, Offset: +/- 10times of STEP AMPLITUDE setting, Offset: +/- 10times of STEP AMPLITUDE setting Step rate Staircase waveform: 2times of 50Hz or 60Hz (50Hz or 60Hz of 60Hz at AC mode) Staircase waveform: 2times of 50Hz or 60Hz | | • | ZU TO 1000 points can be set per each traces. | | | | | | |
| Current mode Maximum curret: 10times of STEP AMPLITUDE setting, Offset: +/- 10times of STEP AMPLITUDE setting Voltage mode Amplitude range: 50mA to 2V at 1-2-5 step Step rate Staircase waveform: 2times of 50Hz or 60Hz (50Hz or 60Hz at AC mode) (50Hz or 60Hz at AC mode) Staircase waveform: 2times of 50Hz or 60Hz (50Hz or 60Hz at AC mode) Staircase waveform: 2times of 50Hz or 60Hz at AC mode) Pulse steps Staircase waveform: 2times of 50Hz or 60Hz at AC mode) Pulse steps of 50Hz or 60Hz at AC mode) Staircase waveform: 2times of 50Hz or 60Hz at AC mode) Pulse steps Staircase waveform: 2times of 50Hz or 60Hz at AC mode) Pulse steps of 50Hz or 60Hz at AC mode) Pulse steps of 50Hz or 60Hz at AC mode) Pulse steps of 50Hz or 60Hz at AC mode) Pulse steps of 50Hz or 60Hz at AC mode) Pulse steps of 50Hz at AC mode) Staircase waveform: 2times of 50Hz or 60Hz at AC mode) Pulse steps of 50Hz at AC mode) Staircase waveform: 2times of 50Hz at AC mode) Collector steps of 50Hz at AC mode) Staircase waveform: 2times of 50Hz at AC mode) Collector 50Hz at AC mode) Collector 50Hz at AC mode) AC post supplies of 50H | Step general | tor | | | | | | | |
| Staircase waveform: 2times of STEP AMPLITUDE setting, Offset: +/- 10times of STEP AMPLITUDE setting | Current mode | | | | | | • | JDE setting | |
| Step rate (50Hz or 60Hz at AC mode) (1.0west frequency limited) waximum peak power consumption setting) Pulse steps Pules width variable from 50 μ s to 400 μ s at 10 μs resolution, measurement point can be set. Number of steps 0 to 20steps AUX output For a part of the part | Voltage mode | | · | | | | | | |
| Step rate (50Hz or 60Hz at AC mode) Pulses trequency limited by maximum peak power consumption setting) Pulse steps Pules width variable from 50 μs to 400 μs at 10 μs resolution, measurement point can be set. Number of steps 0 to 20steps AUX output AUX output Range OFF, variable from -40V to +40V at 100mV step Vertical axis High voltage mode: 1 μ A/div to 2A/div (20steps) at 1-2-5 step Emitter current (at LEAKAGE) High current mode: 100mA/div to 50A/div (10steps) at 1-2-5 step Emitter current (at LEAKAGE) High current mode: 50mV/div to 500V/div (20steps) at 1-2-5 step Horizontal axis High current mode: 50mV/div to 500V/div (7steps) at 1-2-5 step Base / Emitter voltage High current mode: 50mV/div to 50V/div (7steps) at 1-2-5 step Base / Emitter voltage S 0mV/div to 50V/div (7steps) at 1-2-5 step Base / Emitter voltage | | | Staircase waveform: 2times of 50Hz or 60Hz Staircase waveform: 2times of 50Hz or 60Hz at AC mode) | | | | | | |
| Pulse steps Pules width variable from 50 μs to 400 μs at 10 μs resolution, measurement point can be set. Number of steps 0 to 20steps AUX output Range OFF, variable from -40V to +40V at 100mV step Vertical axis High voltage mode: 1 μ A/div to 2A/div (20steps) at 1-2-5 step Collector current High current mode: 100mA/div to 50A/div (9steps) at 1-2-5 step High current mode: 100mA/div to 100A/div (9steps) at 1-2-5 step Emitter current (at LEAKAGE) 1nA/div to 2mA/div (20steps) at 1-2-5 step High current mode: 50mV/div (7steps) at 1-2-5 step Collector voltage High voltage mode: 50mV/div to 500V/div, (13steps) at 1-2-5 step 4 ligh current mode: 50mV/div (7steps) at 1-2-5 step Base / Emitter voltage Figh current mode: 50mV/div (7steps) at 1-2-5 step General specifications Display Date save / Recall Remote control (SVGA 800x600ptixcels) Date save / Recall External USB port for setups, waveform save&recall, hardcopy of display into removable memory USB port Providence control (SVGA 800x600ptixcels) Accessories AC90V-AC264V single phase, 45Hz to 66Hz, 500VA Accessories AC90V-AC264V single phase, 45Hz to 66Hz, 500VA Dimensions, weight and environment condition </td <th>Step rate</th> <td></td> <td>J tun cus</td> <td colspan="6">Pulse: variable from 80ms to 1000ms</td> | Step rate | | J tun cus | Pulse: variable from 80ms to 1000ms | | | | | |
| Number of steps 0 to 20steps AUX output Range OFF, variable from -40V to +40V at 100mV step Vertical axis High voltage mode: 1 μ A/div to 2A/div (20steps) at 1-2-5 step Collector current High current mode: 100mA/div to 50A/div (20steps) at 1-2-5 step Emitter current (at LEAKAGE) 1 nA/div to 2mA/div (20steps) at 1-2-5 step Horizontal axis Collector voltage High current mode: 50mV/div (13steps) at 1-2-5 step Base / Emitter voltage 50mV/div to 50mV/div (7steps) at 1-2-5 step General specifications Display 8.4 inch color TFT-LCD (SVGA 800x600pixcels) Bate save / Recall Internal memory: 256 setups and 4 REF waveforms External: USB port for setups, waveform saveforesall, hardcopy of display into removable memory USB port 1 port (USB1.1) Remote control A Cpower supply/ Power consumption A CS -301*1 (Fixture S), CS -500*1 (blank adaptor), Operation manual*1, Power cable*1 Operation manual*1, Power cable*1 Operation manual*1, Wire set*1, Power cable*1 Dimensions, weight and | Pulsa stans | | | | | | | | |
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| Collector current High current mode: 100mA/div to 50A/div (9steps) at 1-2-5 step | Vertical axis | | | | | | | | |
| Emitter current (at LEAKAGE) 1nA/div to 2mA/div (20steps) at 1-2-5 step Horizontal axis Collector voltage High voltage mode: 50mV/div to 500V/div, (13steps) at 1-2-5 step High current mode: 50mV/div to 5V/div (7steps) at 1-2-5 step Base / Emitter voltage General specifications Display Bate save / Recall Collector voltage Bate / Emitter Sumary Sum | | | | High voltage | mode: 1 μ A/div to 2A/div (20steps) at 1-2-5 step | | | | |
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| Internal memory: 256 setups and 4 REF waveforms | | ifications | | | | | | | |
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| Weight Approx. 30kg without accessories Approx. 45kg without accessories | Dimensions, | weight and | envir | onment condition | | | | | |
| | | | 1 | | | Approx. 424W×55 | 5.2L×354.5H(mm) | | |
| | Weight | | Ар | prox. 30kg without accessories | | Approx. 45kg wit | hout accessories | | |
| | 3 | onditions | <u> </u> | Operation: 0deg. to +40deg Accuracy guranteed: +10deg. to +35deg. | | | | | |



IWATSU ELECTRIC CO., LTD.

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Manufactured by IWATSU TEST INSTRUMENTS CORP.