# ΗΙΟΚΙ

Instruction Manual

# 3269 POWER SUPPLY

# HIOKI E. E. CORPORATION

December 2014 Revised edition 6 3269A981-06 14-12H



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## Introduction

Thank you for purchasing the HIOKI Model 3269 Power Supply. To obtain maximum performance from the device, please read this manual first, and keep it handy for future reference.

### Inspection

When you receive the device, inspect it carefully to ensure that no damage occurred during shipping. If damage is evident, or if it fails to operate according to the specifications, contact your dealer or Hioki representative.

#### Supplied accessories

•	Power cord	1
•	Instruction Manual	1

### **Safety Notes**

## **A**DANGER

This device is designed to comply with IEC 61010 Safety Standards, and has been thoroughly tested for safety prior to shipment. However, mishandling during use could result in injury or death, as well as damage to the device. Using the device in a way not described in this manual may negate the provided safety features.

Be certain that you understand the instructions and precautions in the manual before use. We disclaim any responsibility for accidents or injuries not resulting directly from device defects.

This manual contains information and warnings essential for safe operation of the device and for maintaining it in safe operating condition. Before using it, be sure to carefully read the following safety precautions.

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### Safety Symbols

	In the manual, the $\triangle$ symbol indicates particularly important information that the user should read before using the device. The $\triangle$ symbol printed on the device indicates that the user should refer to a corresponding topic in the manual (marked with the $\triangle$ symbol) before using the relevant function.	
Ŧ	indicates a grounding terminal.	
$\sim$	Indicates AC (Alternating Current).	
I	Indicates the ON side of the power switch.	
0	Indicates the OFF side of the power switch.	

The following symbols in this manual indicate the relative importance of cautions and warnings.

<b>A</b> DANGER	Indicates that incorrect operation presents an ex- treme hazard that could result in serious injury or death to the user.
<u> AWARNING</u>	Indicates that incorrect operation presents a sig- nificant hazard that could result in serious injury or death to the user.
A CAUTION	Indicates that incorrect operation presents a pos- sibility of injury to the user or damage to the device

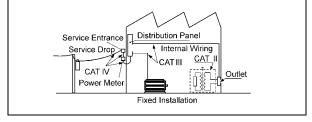
#### Measurement categories

To ensure safe operation of measurement devices, IEC 61010 establishes safety standards for various electrical environments, categorized as CAT II to CAT IV, and called measurement categories. CAT II: Primary electrical circuits in equipment connected to

- CAT II: Primary electrical circuits in equipment connected to an AC electrical outlet by a power cord (portable tools, household appliances, etc.) CAT II covers directly measuring electrical outlet receptacles.
- CAT III: Primary electrical circuits of heavy equipment (fixed installations) connected directly to the distribution panel, and feeders from the distribution panel to outlets.
- CAT IV: The circuit from the service drop to the service entrance, and to the power meter and primary overcurrent protection device (distribution panel).

Using a measurement device in an environment designated with a higher-numbered category than that for which the device is rated could result in a severe accident, and must be carefully avoided.

Use of a measurement instrument that is not CAT-rated in CAT II to CAT IV measurement applications could result in a severe accident, and must be carefully avoided.



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### **Operating Precautions**

Follow these precautions to ensure safe operation and to obtain the full benefits of the various functions.

#### **Before Use**

Before using the device for the first time, verify that it operates normally to ensure that no damage occurred during storage or shipping. If you find any damage, contact your dealer or Hioki representative.

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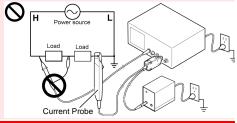




To avoid accidents, when using other measurement devices with this one, observe the usage precautions described for each device.

 When using a measurement instrument that does not provide isolation between its input terminals and chassis or other input terminals, please pay attention to the following points.

If a signal is applied to an input terminal other than that to which the current probe is connected, do not connect the groundside terminal to any non-ground potential. Otherwise, short-circuit current will flow through the current probe or this device from the ground terminal, which could cause an electrical accident or damage.



<u>AWARNING</u>

To avoid electrical accidents and to maintain the safety specifications of this device, connect the power cord only to a 3-contact (twoconductor + ground) outlet. **<u>CAUTION</u>** Observe the following to avoid damage to the device.

- Installation and Operating Environment Between 0 and 40°C (32 and 104°F); 80%RH or less; indoors only.
- Do not store or use the device where it could be exposed to direct sunlight, high temperature or humidity, or condensation. Under such conditions, the device may be damaged and insulation may deteriorate so that it no longer meets specifications.
- This device is not designed to be entirely wateror dust-proof. To avoid damage, do not use it in a wet or dusty environment.
- To avoid damage to the device, protect it from physical shock when transporting and handling.
   Be especially careful to avoid physical shock from dropping.
- To avoid damaging the power cord, grasp the plug, not the cord, when unplugging it from the power outlet.

## 8 Operating Precautions

## Overview

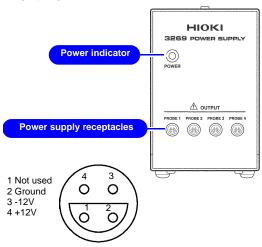
# Chapter 1

## **1.1 Product Overview**

This unit is the power supply dedicated to Models 3273-50, 3273, 3274, 3275, and 3276 Clamp on Probe (hereafter referred to as the "current probe"), as well as Models CT6700 and CT6701 Current Probe. The unit can supply power to up to four current probes.

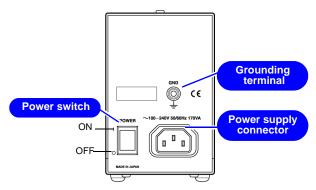
## 1.2 Names of Parts

Front view



The pin assignment of the receptacles

#### **Rear view**



## Measurement Procedure

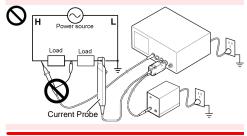
# Chapter 2

## 2.1 Preparations



- To avoid accidents, when using other measurement devices with this one, observe the usage precautions described for each device.
  - When using a measurement instrument that does not provide isolation between its input terminals and chassis or other input terminals, please pay attention to the following points.

If a signal is applied to an input terminal other than that to which the current probe is connected, do not connect the groundside terminal to any non-ground potential. Otherwise, short-circuit current will flow through the current probe or this device from the ground terminal, which could cause an electrical accident or damage.



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- ▲ WARNING Before turning the device on, make sure the supply voltage matches that indicated on its power connector. Connection to an improper supply voltage may damage the device and present an electrical hazard.
  - Turn the power switch off and connect the power cord. To avoid electrical accidents and to maintain the safety specifications of this device, connect the power cord only to a 3-contact (two-conductor + ground) outlet.
  - **2.** Connect the power plug of the sensor to be used to the power receptacle of the 3269.
  - **3.** Turn the 3269 power switch on, and check that the front panel power indicator lights.

### 2.2 Measurement Procedure

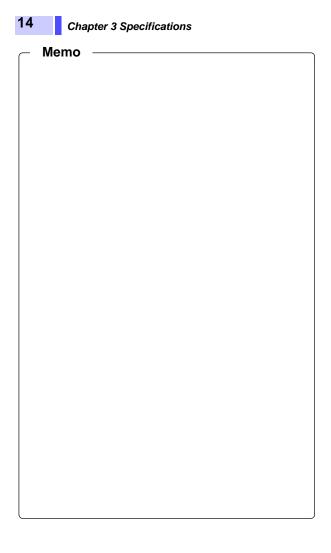
See the 3273-50, 3273, 3274, 3275, 3276, CT6700, or CT6701 instruction manual.

# **Specifications**

Product Specifications

# Chapter 3

r roudet opeemeations					
Compatible sensors	3273-50, 3273, 3274, 3275, 3276, CT6700, CT6701				
Number of power supply connectors	4				
Output voltage	±12 V±0.5 V				
Rated output current	±2.5 A (sum total of all channels)				
Ripple voltage	50 mVp-p or less				
Load influence	Within output voltage limits indicated above for current output in the range 0 to $\pm 2.5$ A				
Temperature influence	Within output voltage limits indicated above for ambient temperature in the range 0 to 40°C (32 to 104°F)				
Rated supply volt- age	100 to 240V AC (50/60Hz) (Voltage fluctuations of $\pm$ 10% from the rated supply voltage are taken into account.)				
Maximum rated power	170 VA				
Operating tempera- ture and humidity range	0 to 40°C(32 to 104°F),80%RH or less (no condensation)				
Storage temperature and humidity range	-10 to 50°C(14 to 122°F), 80%RH or less (no condensation)				
Location for use	Indoor, altitude up to 2000 m (6562 feet)				
Dimensions, Mass	Approx.80W × 119H × 200D mm (3.15"W × 4.69"H × 7.87"D) Approx.1.2 kg (42.3 oz.)				
Accessories	Instruction Manual Power cord				
Standards applying	Safety EN61010, Pollution Degree 2 EMC EN61326, EN61000-3-2, EN61000-3-3				

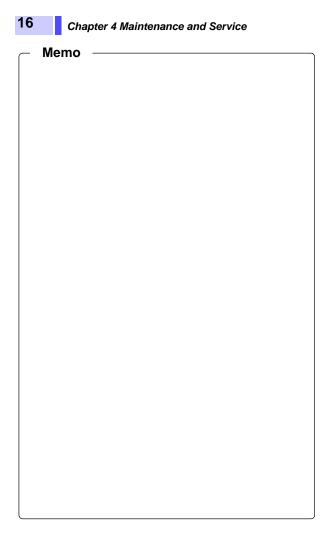


## Maintenance and Service

# Chapter 4

# 4.1 Cleaning and Service

- To clean the device, wipe it gently with a soft cloth moistened with water or mild detergent. Never use solvents such as benzene, alcohol, acetone, ether, ketones, thinners or gasoline, as they can deform and discolor the case.
- If damage is suspected, contacting your dealer or Hioki representative.
- When sending the device for repair, pack carefully to prevent damage in transit. Include cushioning material so the device cannot move within the package. Be sure to include details of the problem. Hioki cannot be responsible for damage that occurs during shipment.



### Warranty Certificate

Model	Serial No.	Warranty period			
		One (1) year from date of purchase (/)			
This product passed a rigorous inspection process at Hioki before being shipped. In the unlikely event that you experience an issue during use, please contact the distributor from which you purchased the product, which will be repaired free of charge subject to the provisions of this Warranty Certificate. This warranty is valid for a period of one (1) year from the date of purchase. If the date of purchase is unknown, the warranty is considered valid for a period of one (1) year from the product's date of manufacture. Please present this Warranty Certificate when contacting the distributor. Accuracy is guaranteed for the duration of the separately indicated guaranteed accuracy period.					
*Requests • Hioki is not able to reissue this Warranty Certificate, so please store it carefully. • Please fill in the model, serial number, and date of purchase on this form. 13-09					
HIOKI E.E. CORP 81 Koizumi, Ueda, Na TEL: +81-268-28-055 FAX: +81-268-28-055	igano 386-1192, Japan 5				

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HIOKI E.E. CORPORATION

#### Headquarters

81 Koizumi, Ueda, Nagano 386-1192, Japan TEL +81-268-28-0562 FAX +81-268-28-0568 E-mail: os-com@hioki.co.jp (International Sales and Marketing Department)

## http://www.hioki.com/

#### HIOKI USA CORPORATION

E-mail: hioki@hiokiusa.com

http://www.hiokiusa.com

#### HIOKI (Shanghai) Sales & Trading Co., Ltd.

E-mail: info@hioki.com.cn http://www.hioki.cn

#### HIOKI INDIA PRIVATE LIMITED

E-mail: hioki@hioki.in http://www.hioki.in

#### HIOKI SINGAPORE PTE. LTD.

E-mail: info@hioki.com.sg

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