

# DC Clamp-type Portable Power Monitor ZN-DCC11

CSM\_ZN-DCC11\_DS\_E\_1\_1

## It May Not Look Like a Logger...

- Easily measure DC current.
- Easy logging with the press of a button.
- Portable structure for use essentially anywhere.



**NEW**



Refer to *Safety Precautions* on page 2.

## Ordering Information

### Power Monitor

Appearance	Product name	Model	Power supply
	DC Clamp-type Portable Power Monitor	<b>ZN-DCC11</b>	Secondary lithium battery (charged via USB)

## Ratings/Characteristics

### Power Monitor Ratings

Item	Model	ZN-DCC11
Rated measurement current		±200 A DC
Maximum number of times clamped		10,000
Clamp inner diameter		23
Applicable circuit voltage		500 VDC max.
Display		7-segment LCD with 4 digits on 1 row, supplemental information indicators, and CHARGE indicator
Logging interval		0.5 s, 1 s, 2 s, 5 s, 10 s, 20 s, 30 s, or 1 min (Set with utility software.)
Conversions *1		Instantaneous power
Internal memory capacity		105 files max. *2 Approx. 1,700,000 data items (Data item size: Approx. 4 bytes) *3
Power supply		Lithium secondary battery (charged from PC USB port)
Current consumption		75 mA max. (maximum current flow when connected via USB)
Battery life *4		Approx. 6 days (logging interval: 1 s, ambient temperature: 23°C)
Charging time		Approx. 3 hr (at 23°C from a battery level of 0)
Operating temperature range		Battery powered: -10 to 50°C (with no condensation or icing) Charging via USB: 0 to 40°C (with no condensation or icing)
Operating humidity range		20% to 80% (with no condensation or icing)
Storage temperature and humidity		-10 to 60°C, 20% to 80% (with no condensation or icing)
Insulation resistance		With USB connector case: 50 MΩ min. (at 500 VDC)
Dialectic strength		With USB connector case: 1,000 VAC, 50/60 Hz for 1 min
Vibration resistance (destruction)		10 to 150 Hz with a 0.7-mm double amplitude or acceleration of 50 m/s <sup>2</sup> for 80 min each in X, Y, and Z directions
Shock resistance (destructive)		150 m/s <sup>2</sup> 3 times each in six directions (up/down, left/right, forward/backward) *5
Material		ABS
Maximum number of USB connections		5,000
Degree of protection		IP30
Weight (packed state)		Approx. 300 g
Accessories		Instruction sheet, utility disc (CD-ROM), *6 USB cable (mini-B), and handstrap (packed connected to Power Monitor)

\*1. The instantaneous power is calculated from the measured current and the set voltage. Set the correct number.

\*2. One file is created each time logging is started. If the maximum number of files is exceeded, an E12 error is displayed and you will not be able to start logging.

\*3. If the number of data items exceeds the internal memory capacity, an E11 error occurs and logging stops.

\*4. The battery life depends on the measurement environment, logging interval, and operating mode.

\*5. Install the Power Monitor in a location in which it will not be subject to shock.

\*6. The utility disk contains the utility software, USB driver, PDF manual file, etc.

System requirements for enclosed software: OS: Windows XP SP3 or Windows 7 (64-bit edition supported only for Windows 7)  
Processor: Intel-equivalent processor of 1.5 GHz min, Memory: 1 GB min. (2 GB min. recommended)

## Power Monitor Measurement Specifications

Item	Model	ZN-DCC11	
Rated measurement current		±200 A DC	
Maximum measurement current		110% of rated measurement current	
Current accuracy*	0 to ±24.9 A		±2.0% rdg ±5 digits
	±25.0 to ±99.9 A		±2.5% rdg ±5 digits
	±100 to ±200 A		±2.0% rdg ±1 digit
Logged values		Current	
Applicable circuit		DC circuit	

\* At an ambient temperature of 23 ±10°C and rated input.

## Safety Precautions

### WARNING

Electrical shock may occasionally occur.  
Always turn OFF the power supply to the measured conductors before clamping or unclamping the Power Monitor, and always wear insulating gloves.



Dispose of the Power Monitor as industrial waste.  
A lithium battery is built into the Power Monitor and combustion or rupture may occasionally result in serious injury. Do not disassemble, deform under pressure, heat to 100°C or higher, or incinerate the battery.



Refer to your OMRON website for FAQs and other technical information. Refer to the relevant Technical Guide on your OMRON website.

### CAUTION

Do not use the Power Monitor in locations where flammable or explosive gases are present.  
Doing so may occasionally result in minor or moderate explosion, causing minor or moderate injury, or property damage.



Do not disassemble, repair, or modify the Power Monitor.

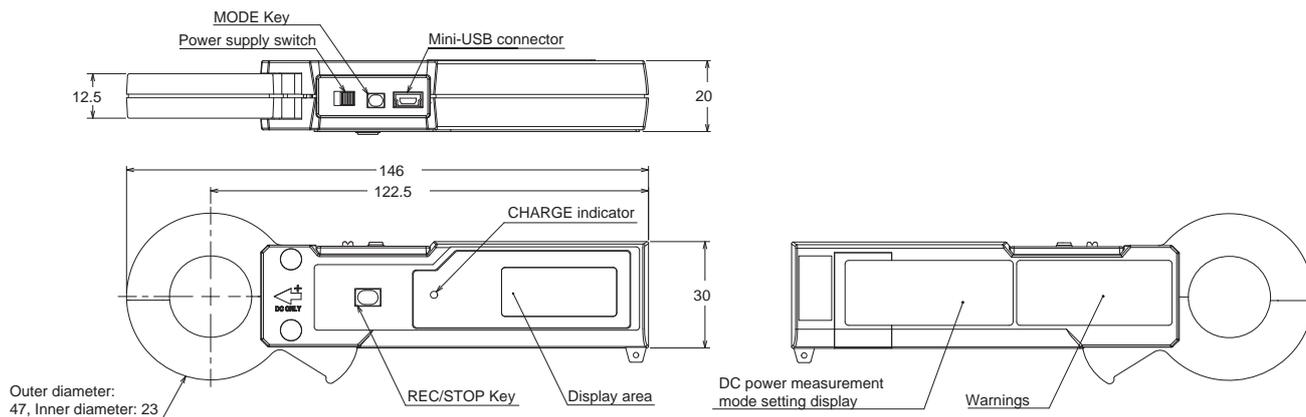
Doing so may occasionally result in electric shock, minor injury, fire, or malfunction.



# Dimensions

Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

## ZN-DCC11



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