

NEW!!

OVGR function is combined to  
Reverse Power Relay (DRPR-72).  
All-in-one type of measurement and protection  
for Solar Power Generation.

Release On  
**JUNE**  
**2023**



GROUND OVERVOLTAGE & REVERSE POWER  
PROTECTION DEVICE

**DVRR-72**

**RPR**

**+**

**OVGR**

**+**

**HIGH SPEED  
RESPONSE 100ms**



## GROUND OVERVOLTAGE & REVERSE POWER PROTECTION DEVICE

# DVRR-72

### Monitoring and communication response time less than 100ms.

Possible to control power conditioners which in tune with instantaneously variable power consumption. Factories and commercial facilities can realize high-precision, load-following, self-consuming solar power generation systems which can suppress the amount of purchased power while not generating reverse power.

### Smallest and compact size in the market.

Structural design that uses high-density internal circuit integration technology, screwless spring-type terminal block and split-type current sensor. Combined protection relay and multi-meter function all in one compact size (DIN 72 x 72 mm), which is the smallest design in the market.

### Adoption of split-type current sensor.

Due to the use of split-type current sensors, construction of CT lines is unnecessary, especially for modifications to existing facilities, which can shorten the construction period by saving workloads.

### Available for unbalanced loads.

As with our various relays and multimeters, they can be used with unbalanced loads without any problems.

### Saving energy and natural resources.

Power consumption of control power supply  
AC110V: 5VA  
DC110V: 2W

### RATING

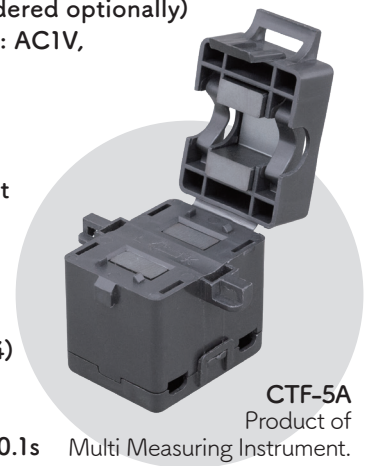
Input line: 3P3W, 1P3W, 1P2W  
Voltage rating: AC110V, 50/60Hz  
Current rating: 5A Split type current sensor  
(Type: CTF-5A to be ordered optionally)  
Zero phase voltage rating: AC1V,  
(ZPD:AC190V/50mV)

### INPUT, OUTPUT

Control Input:  
Relay Lock or Status Input

Control Output:  
Control output 1:  
Reverse Power (67P)  
Control output 2:  
Ground Overvoltage (64)

Communication Output:  
RS-485: Modbus RTU  
Response time: less than 0.1s



CTF-5A  
Product of  
Multi Measuring Instrument.

### PROTECTION

Reverse Power (67P)  
Ground Overvoltage (64)  
Blackout guarantee time: 5 sec.

### MEASUREMENT

Voltage (V), Current (I), Power (kW),  
Reactive Power (var), Demand, VA, PF, Hz,  
kWh, kvarh, Zero Phase Voltage (V0)

### STANDARD OF COMPLIANCE

#### PROTECTION

JIS C 4612 (2020)  
JEC 2500 (2010)  
JEC 2511 (1995)

#### MEASUREMENT

JIS C 1102-1 (2011), -2,-3,-4,-5,-7 (1997)  
JIS C 1111 (2019)  
IEC 60688 (2012) ...

#### SAFETY

IEC 61010-1:2010 CAT III  
Max. Operating Voltage 300V  
Pollution degree 2

