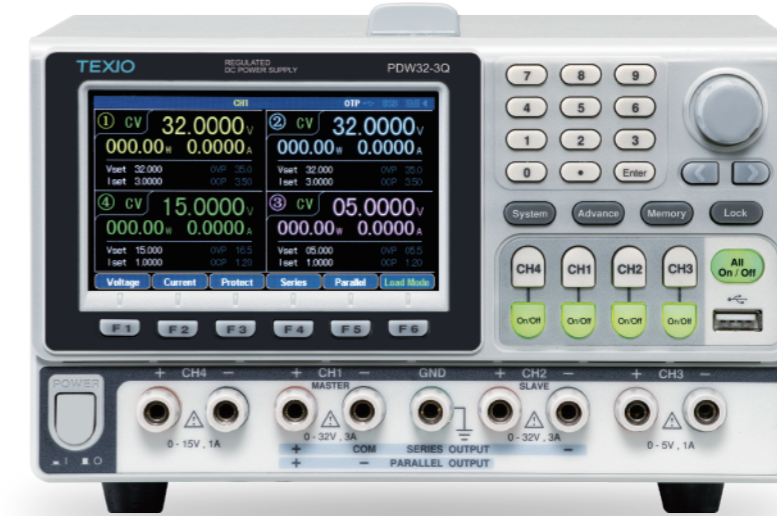


| Specification | 1CH Model | | 2CH Model | | 3CH model | | | 4CH Model | | |
|--------------------|--|---|---|--|---|---|------------------|------------------|--------------|--|
| Model name | PDW32-6SG PDW36-10SG/PDW72-5SG | | PDW32-3DG | | PDW32-3TG/PDW30-6TG PDW60-3TG/PDW36-5TG | | | PDW32-3QG | | |
| Power function | CH | CH1 | CH1/CH2 | CH1/CH2 | CH1/CH2 | CH3 | CH1/CH2 | CH3 | CH4 | |
| Output range | Voltage / Current | PDW32-6SG 0~32V/0~6A PDW36-10SG 0~36V/0~10A PDW72-5SG 0~72V/0~5A | 0~32V/0~3A | 0~64V/0~6A | PDW32-3TG 0~32V/0~3A PDW30-6TG 0~30V/0~6A PDW60-3TG 0~60V/0~3A PDW36-5TG 0~36V/0~5A PDW32-3TG 0~64V/0~6A PDW30-6TG 0~60V/0~12A PDW60-3TG 0~120V/0~6A PDW36-5TG 0~72V/0~10A | 1.8, 2.5, 3.3, 5.0 V/5A USB port: 3A | 0~32V/0~3A | 0~5V 0~15V | 0~15V | |
| | Tracking Mode Series voltage /Parallel current | — | — | — | — | — | — | — | — | |
| CV characteristics | Input variation | ≤ 0.01%+3mV | ≤ 0.01%+3mV | ≤ 0.01%+3mV | ≤ 0.01%+3mV | ≤ 3mV | ≤ 0.01%+3mV | ≤ 0.01%+3mV | ≤ 0.01%+3mV | |
| | Load variation | ≤ 0.01%+5mV | ≤ 0.01%+3mV | ≤ 0.01%+3mV | ≤ 0.01%+3mV | ≤ 5mV | ≤ 0.01%+3mV | ≤ 0.01%+3mV | ≤ 0.01%+3mV | |
| | Ripple noise (5~1MHz) | Other Model ≤ 0.5mVrms Other Model ≤ 2mVrms | ≤ 0.35mVrms | ≤ 0.35mVrms | ≤ 0.35mVrms | ≤ 2mVrms | ≤ 0.35mVrms | ≤ 1mVrms | ≤ 1mVrms | |
| CC characteristics | Transient response time | ≤ 100μs | ≤ 50μs | ≤ 100μs | ≤ 50μs | ≤ 100μs | ≤ 50μs | ≤ 50μs | ≤ 50μs | |
| | Input variation | PDW32-6SG ≤ 0.2%+3mA Other Model ≤ 0.01%+3mV | ≤ 0.2%+3mA | ≤ 0.2%+3mA | ≤ 0.2%+3mA | ≤ 0.01%+3mV | ≤ 0.2%+3mA | ≤ 0.2%+3mA | ≤ 0.2%+3mA | |
| | Load variation | PDW32-6SG ≤ 0.2%+3mA Other Model ≤ 0.01%+3mV | ≤ 0.2%+3mA | ≤ 0.2%+3mA | ≤ 0.2%+3mA | ≤ 0.01%+3mV | ≤ 0.2%+3mA | ≤ 0.2%+3mA | ≤ 0.2%+3mA | |
| Resolution | Ripple noise | ≤ 2mArms | ≤ 2mArms | ≤ 2mArms | ≤ 2mArms | — | ≤ 2mArms | ≤ 2mArms | ≤ 2mArms | |
| | Setting voltage/current | PDW72-5SG 2mV/0.1mA Other Model 1mV/0.2mA | 1mV/0.1mA | 1mV/0.1mA | 1mV/0.1mA 1mV/0.2mA 2mV/0.1mA 1mV/0.2mA | — | 1mV/0.1 m A | 1mV/0.1 m A | 1mV/0.1 m A | |
| Tracking Mode | Display voltage/current | PDW32-6SG, PDW36-10SG: 0.1mV/0.2mA, Other Model: 0.1mV/0.1mA | | | 0.1mV/0.1mA | | | 0.1mV/0.1mA | | |
| | Tracking errors | No load | ≤ 0.1% +10mV | PDW60-3TG ≤ 0.2% +20mV Other Model ≤ 0.1% +10mV | PDW32-3TG ≤ 0.2% +20mV Other Model ≤ 0.1% +10mV | — | ≤ 0.1% +10mV | — | — | |
| Accuracy | With load | Above value+100mV | PDW32-3TG Above value+100mV Other Model Above value+200mV | PDW32-3TG Above value+100mV Other Model Above value+200mV | — | Above value+100mV | — | — | | |
| | Parallel: CV load variation | — | ≤ 0.01%+3mV | ≤ 0.01%+3mV | — | ≤ 0.01%+3mV | — | — | | |
| | Parallel:CC input variation | — | PDW32-3TG ≤ 0.02%+5mV PDW30-6TG ≤ 0.02%+5mV PDW60-3TG ≤ 0.01%+5mV PDW36-5TG ≤ 0.01%+5mV | — | — | ≤ 0.02%+5mV | — | — | | |
| | Series: CV load variation | — | ≤ 0.01%+5mV | ≤ 0.01%+5mV | — | ≤ 0.01%+5mV | — | — | | |
| | Series: CV input variation | — | ≤ 100mV | PDW32-3TG ≤ 100mV Other Model ≤ 200mV | — | ≤ 100mV | — | — | | |
| General | CV ripple noise (5~1MHz) | ≤ 1mVrms | PDW32-3TG ≤ 1mVrms Other Model ≤ 2mVrms | — | — | ≤ 1mVrms | — | — | | |
| | Voltage setting | Terminal ± (0.03%rdg+10mV) USB port — | — | — | — | ± 0.03%rdg+10mV | — | — | | |
| | Current setting | — | ± (0.3%rdg+10mA) | — | — | ± (0.3%rdg+10mA) | — | — | | |
| | Voltage display | — | ± (0.03%rdg+10mV) | — | — | ± (0.03%rdg+10mV) | — | — | | |
| Load functions | Current display | — | ± (0.3%rdg+10mA) | — | — | ± (0.3%rdg+10mA) | — | — | | |
| | Power | CH 0~100.00W | CH1/CH2 0~50.00W | CH1/CH2 0~50.00W | CH1/CH2 0~50.00W | CH1/CH2 0~50.00W | CH1/CH2 0~50.00W | CH1/CH2 0~50.00W | | |
| | Input range | Voltage / Current | PDW32-6SG 1~33V/0~6.2A PDW36-10SG 1~36.5V/0~10.2A PDW72-5SG 1~72.5V/0~5.2A | 1~33V/0~3.2A | 1~33V/0~3.2A | 1~33V/0~3.2A | 1~33V/0~3.2A | 1~33V/0~3.2A | 1~33V/0~3.2A | |
| | Characteristics | CV mode | Setting range: 1.500V~voltage input range, Resolution: 10mV, Accuracy/Display accuracy: ± (0.1%+30mV) | — | — | — | — | — | | |
| General | CC mode | Setting range: Same as current input range, Resolution: 1mA, Accuracy/Display accuracy: ± (0.3%+10mA) | — | — | — | — | — | — | | |
| | CR mode | Setting range: 1 Ω ~1k Ω , Resolution: 1 Ω , Accuracy/Display accuracy: ± (3%+1 Ω), (≥ 0.1V and ≥ 0.1A) | — | — | — | — | — | — | | |

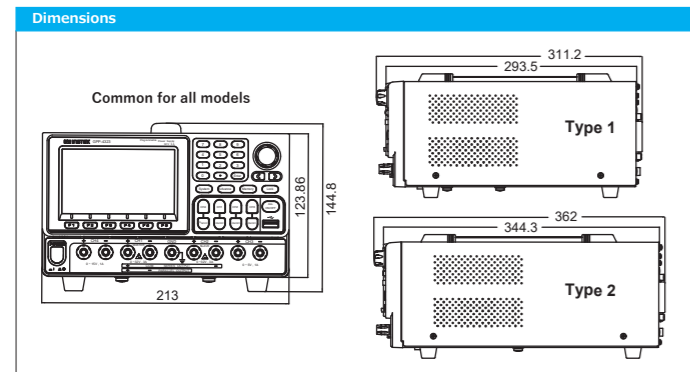


Multifunctional DC regulated power supply with electronic load function

PDW Series

- 1ch** PDW32-6GS
- 2ch** PDW32-3DG
- 3ch** PDW36-5TG
- 1ch** PDW36-10SG
- 3ch** PDW30-6TG
- 3ch** PDW60-3TG
- 1ch** PDW72-5SG
- 3ch** PDW32-3TG
- 4ch** PDW32-3QG

- High resolution: Setting 1mV/0.1mA, Reading 0.1mV/0.1mA
- Equipped with electronic load function (CH1, CH2 / CC, CV, CR mode)
- Low noise and low ripple : ≤350μVrms/≤2mArms (In the case of PDW32-3DG)
- Series/parallel tracking function (CH1-CH2)
- Delay/Monitor/Recorder function
- Protection function : OVP/OCP/OTP/OPP (OPP: In electronic load operation)
- Sequence function (CH1 · CH2)
- Internal memory (Panel setting/Sequence/Delay/Recorder)
- Output power from the USB power supply port (3CH Model)
- Voltage remote sense function
(1CH Model, 3CH Model except PDW32-3TG and PDW32-3QG)
- 4.3 inch color TFT LCD
- Standard Interface : USB, RS-232C, GP-IB, LAN, External I/O



| Accessory | |
|---------------------------------------|---|
| Power Cable, Using the product safely | 1 piece each for all models |
| Test lead | GTL-104A x 1, GTL-105A x 1 PDW32-6SG, PDW36-10SG, PDW72-5SG GTL-104A x 2 PDW32-3D GTL-104A x 3 PDW30-6TG, PDW32-3TG, PDW36-5TG, PDW60-3TG GTL-104A x 2, GTL-105A x 2 PDW32-3QG |
| Rear output terminal connector x 1 | PDW36-10SG, PDW72-5SG, PDW30-6TG, PDW36-5TG, PDW60-3TG |
| Short bar x 1 | — |

| Accessories · Options | |
|--|--------------------------------|
| USB cable (USB2.0, Type A-B, approx. 1.2m) | GTL-246 |
| Rack mount adapter for TYPE1 | EIA: GRA-437-E, JIS: GRA-437-J |
| Rack mount adapter for TYPE1 and TYPE2 | EIA: GRA-449-E, JIS: GRA-449-J |



Panel description



※The image is PDW32-3QG.

※The image is of housing size Type 2.

- | | | | |
|-----------------------|---------------------------------------|------------------------------|--|
| 1. 4.3 inch color LCD | 5. USB host port | 9. Input voltage switch | 13. External I/O port |
| 2. 10 key | 6. Front output | 10. AC input terminal & FUSE | 14. GP-IB port |
| 3. Function key | 7. Power switch | 11. RS-232C port | 15. LAN port |
| 4. Output ON/OFF key | 8. Power supply port (3CH Model only) | 12. USB device port | 16. Rear output (Housing size Type 2 only) |

Overview



The PDW series is a low-noise, low-ripple, multi-output, high-resolution DC stabilized power supply that uses a dropper method. All models are equipped with an electronic load function (CH1 and CH2, CH1 model only CH1), allowing power supply and discharge operations with one unit.

It is designed to support a variety of tests with its rich functionality, including battery charge/discharge tests and various standard communication interfaces and sequences.

| Model name | Output | CH1 | CH2 | CH3 | CH4 | Housing size | Note | Front output terminal shape |
|------------|--------|----------------|---------------|----------------------|---------------|--------------|---|-----------------------------|
| PDW32-6SG | 1 | 0-32V 0-6A | — | — | — | Type 1 | With sensing function | |
| PDW36-10SG | 1 | 0-36V 0-10A | — | — | — | Type 2 | With sensing function | |
| PDW72-5SG | 1 | 0-72V 0-5A | — | — | — | Type 2 | With sensing function | |
| PDW32-3DG | 2 | 0-32V 0-3A | 0-32V 0-3A | — | — | Type 1 | — | |
| PDW30-6TG | 3 | 0-30V 0-6A | 0-30V 0-6A | 1.8/2.5/3.3/5V 5A | — | Type 2 | CH3 is set value fixed With sensing function | |
| PDW32-3TG | 3 | 0-32V 0-3A | 0-32V 0-3A | 1.8/2.5/3.3/5V 5A | — | Type 1 | CH3 is set value fixed | |
| PDW36-5TG | 3 | 0-36V 0-5A | 0-36V 0-5A | 1.8/2.5/3.3/5V 5A | — | Type 2 | CH3 is set value fixed With sensing function | |
| PDW60-3TG | 3 | 0-60V 0-3A | 0-60V 0-3A | 1.8/2.5/3.3/5V 5A | — | Type 2 | CH3 is set value fixed With sensing function | |
| PDW32-3QG | 4 | 0-32V 0-3A | 0-32V 0-3A | 0-5V 0-1A | 0-15V 0-1A | Type 1 | — | |

Multi-channel & high-resolution settings and measurements



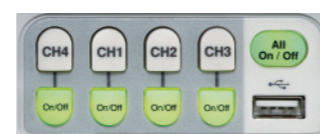
• **Reading resolution**
Voltage : 0.1mV
Current : 0.1mA or 0.2mA

• **Setting resolution**
Voltage : 1mV or 2mV
Current : 0.1mA or 0.2mA

• **Reading accuracy**
Voltage : $\pm(0.03\% \text{ reading} + 10\text{mV})$
Current : $\pm(0.3\% \text{ reading} + 10\text{mA})$

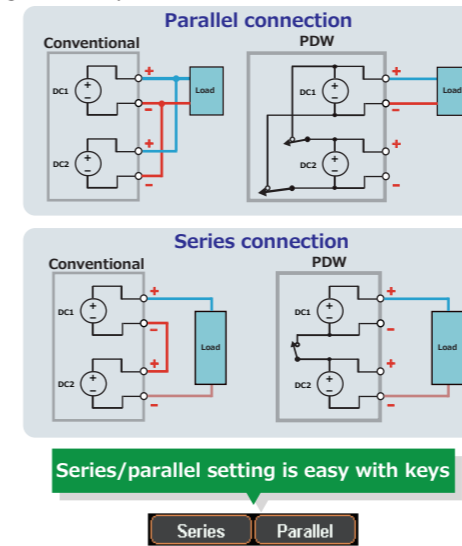
Reading and setting resolution varies by model. For details, please refer to the resolution in the rating column.

Each output of the PDW series has high resolution for setting/reading (monitor display) and allows detailed control, which can be easily performed using 10 keys. Each channel is isolated and can be operated independently, and output ON/OFF can be controlled individually or collectively.



Series and parallel tracking operation

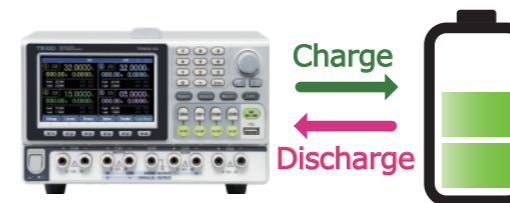
The PDW series is equipped with serial/parallel connections for internal connections. Normal series/parallel connection of two power supplies requires a separate interconnection between the two units, but by providing an internal connection switching function, external connections between each other are no longer required, making it easier. It has become. (Excluding 1CH model)



Electronic load function

CH1 and CH2 can be switched to electronic load mode. The electronic load function has a maximum of 50W (1CH model is 100W) and supports three modes: CV/CC/CR.

Also, mixed operation is possible, such as outputting CH1 as a DC stabilized power supply while operating CH2 as an electronic load.



Sequence

CH1 and CH2 are equipped with a sequence output function. The sequence function is a function that sets the power supply output voltage and current for each step and executes them in order, and electronic load functions (CV/CC) can also be operated. The step time width can be set between 1 and 300 seconds, and the maximum number of steps is 2048. Eight basic shapes (ramp waves, etc.) are built-in for continuous changes and can be easily edited. Up to 10 edited sequence data can be saved internally, and can also be saved and read as a CSV file using a USB memory. (Switching between power supply and electronic load is not possible)



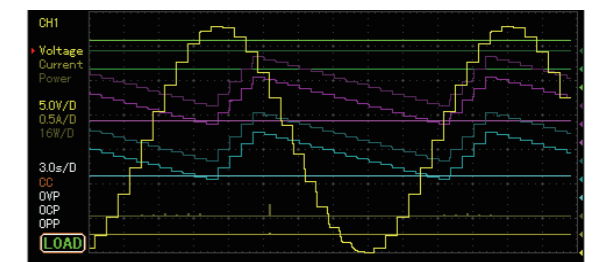
Communication interface and programmable I/O



As communication interfaces, RS-232C, USB, LAN, and GP-IB are standard equipment. The programmable I/O for remote control has 5 ports and can be configured as either input or output. When setting input, ON/OFF control of each channel, switching of power supply/electronic load mode, etc. can be controlled with H/L. When setting the output, it is possible to output a signal when the set power status (voltage, current, power, ON/OFF) is met.

Various display functions

The 4.3-inch color LCD screen allows for a variety of displays. In addition to the normal numerical display, it is also possible to display a graph of the output monitor waveform.



Recorder

| Function | Recorder | 1 | |
|--------------|------------|----------|--|
| Period | | 1800 | |
| Groups | | | |
| CH1: | | | |
| 5 Voltage(V) | Current(A) | Power(W) | |
| 6 4.7 | 2.1 | 10.0 | |
| 7 4.7 | 2.1 | 10.0 | |
| 8 5.5 | 1.8 | 10.0 | |
| 9 5.5 | 1.8 | 10.0 | |
| 10 10.0 | 1.0 | 10.0 | |
| 11 10.0 | 1.0 | 10.0 | |
| 12 12.0 | 0.8 | 10.0 | |
| 13 12.0 | 0.8 | 10.0 | |

It has a record function of output voltage and current values for long-term output confirmation. Sampling can be set between 1 and 300 seconds, and a maximum of 204,800 records can be recorded. (When using USB memory)

Recording results can be written to internal memory or USB memory (CSV file).
※This function cannot be used on CH3 of the 3CH Model.

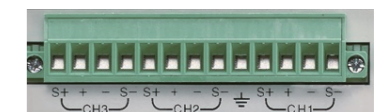
USB power supply port

The 3CH model can be output as a USB power supply port through the USB terminal. (Max 3A)
※When used together with the CH3 power supply terminal, the maximum capacity is 5A including the USB port.



Rear output with remote sensing

The Type 2 model has a rear output terminal with remote sensing function. The power output can be selected from the front terminal or the rear terminal.



※Housing size Type 2 model

Front/back switching is easy with keys

