



Test and Measuring Instrument Product Information

Multi-Output Regulated DC Power Supplies PW-A Series Regulated DC Power Supplies PAR-A Series



PW-A Series



PAR-A Series

Outline

The PW-A Series (tracking multi-output) and the PAR-A Series (single-output) are CV/CC power supplies featuring a built-in microcomputer and excellent reliability, and can be used for development, manufacturing, educational training and so on. Optional interface cards are available for GP-IB, USB or RS-232C remote control, and corresponds to a full remote with listener and talker function. Additionally, possible to implement systems expansion safely for automated measuring systems and simulation testing systems.

Features

One-Dial Control

All setting conditions are selected at the single rotary-encoder. Speedy setting is available to select the figures by the digit-key. Output voltage and current can be set to resolutions of 10mV at 18V/36V output, 1mV at 6V/8V output and 1mA.

Tracking (PW-A Series)

Output voltage and current value of positive and negative can be adjusted from zero at the same time by the absolute value tracking. And adjusting plus % and minus % value based on a certain voltage and current value is possible. The tracking function can be disabled for individual adjusting of positive and negative value.

4 Points Pair Presetting of Voltage and Current Value

Four sets of frequency used voltage and current can be preset. (V-A pairs) It is possible to quick set-up. A variable adjustment is also available.

ON/OFF Delay Time (PW-A Series)

Delay-time can be set in each output. When multiple-output is turned on or off at the same time, the equipment is occasionally damaged. For this, the time of on and off of a specific output can be delayed.

Output Selection (PW-A Series)

On and off of each output can be selected and set besides the main output key.

Remote Sensing (PW8-5ADPS, PW18-1.3ATS, PW26-1ATS and PAR-A Series)

This function compensates for the voltage drop at the load terminals.

Key Lock

A key lock function provides to hold all setting values excepting power switch. It prevents the miss-operation.

Limit & Status

The output voltage and current values can be confirmed by the limit-key. The tracking of each output and the condition of delay setting can be confirmed by the status-key.

Various External Controls

ON/OFF of main output, selection of PRESET1-4 and makes to the alarm and a main output is turned off.

Over heating Protection

When the exhaust temperature enters the state of overheating, the alarm signal is output and a main output is turned off. When the alarm signal is output in case of one of several systems, all main outputs are automatically turned off. Maximum 5 sets can be connected.

Heat Radiation Method

Rotation speed of the fan is proportion to the temperature of exhaust air. It was considered to the noise.

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Specifications

Model	Output Channel	Output (Voltage / Current)
PW8-3AQP	4	+8V/3A +8V/3A +8V/3A +8V/3A
PW18-1.8AQ		+18V/1.8A -18V/1.8A +8V/2A -6V/1A
PW24-1.5AQ		+24V/1.5A -24V/1.5A +8V/2A +8V/2A
PW8-3ATP	3	+8V/3A +8V/3A +18V/1.5A
PW16-2ATP		+16V/2A +16V/2A +16V/2.5A
PW18-2ATP		+18V/2A +36V/1A +8V/2A
PW18-1.3ATS		+18V/1.3A -18V/1.3A +6V/5A
PW26-1ATS		+26V/1A -26V/1A +6V/5A
PW8-5ADPS		+8V/5A +8V/5A
PW16-5ADP	2	+16V/5A +6V/3A
PW18-3AD		+18V/3A -18V/3A
PW18-3ADP		+18V/3A +18V/3A
PW36-1.5AD		+36V/1.5A -36V/1.5A
PW36-1.5ADP		+36V/1.5A +36V/1.5A
PAR18-6A		1
PAR36-3A	+36V/3A	

Model	Ripple		Line regulation		Load regulation		Power consumption (Approx.)
	CV	CC	CV	CC	CV	CC	
	mVrms	mArms	mV	mA	mV	mA	
PW8-3AQP	0.5	1.5	1	2	2	5	245W / 300VA
PW18-1.8AQ	0.5	1.5	1	2	2	5	191W / 255VA
PW24-1.5AQ	0.6*	1.5	1	2	2	5	220W / 276VA
PW8-3ATP	0.5	1.5	1	2	2	5	183W / 240VA
PW16-2ATP	0.5	1.5	1	2	2	5	210W / 267VA
PW18-2ATP	0.6*	1.5	1	2	2	5	178W / 242VA
PW18-1.3ATS	0.5	1.5	1	2	2	5	179W / 230VA
PW26-1ATS	0.6*	1.5	1	2	2	5	193W / 250VA
PW8-5ADPS	0.5	1.5	1	2	2	5	214W / 247VA
PW16-5ADP	0.5	1.5	1	2	2	5	212W / 265VA
PW18-3AD	0.5	1.5	1	2	2	5	213W / 278VA
PW18-3ADP	0.5	1.5	1	2	2	5	213W / 278VA
PW36-1.5AD	0.6*	1.5	1	2	2	5	189W / 255VA
PW36-1.5ADP	0.6*	1.5	1	2	2	5	189W / 255VA
PAR18-6A	0.5	2	1	2	2	5	213W / 278VA
PAR36-3A	0.5	2	1	2	2	5	189W / 255VA

* Under $\pm 24V$ output : 0.5mVrms

Common items

Voltage setting resolution	1mV (at $\pm 6V$, +8V output), 10mV (at +16V, $\pm 18V$, $\pm 26V$, $\pm 36V$ output)
Current setting resolution	1mA
Voltmeter / Ammeter	4 digits, red LED
Input power requirement	AC100 / 115 / 200 / 230V $\pm 10\%$, 50Hz / 60Hz
Input power consumption	Approx. 220W
Case dimensions	138 (W) \times 124 (H) \times 380 (D) mm (Max. 140 \times 148 \times 403 mm)
Weight	Approx. 9.1kg
Accessories	Instruction manual, Power cord, External control cable Remote sensing connector lead (2pcs) (PW8-5ADPS, PW18-1.3ATS, PW26-1ATS only)

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Remote Control (PW-A Series, PAR-A Series)

IF-41GU, IF-41USB

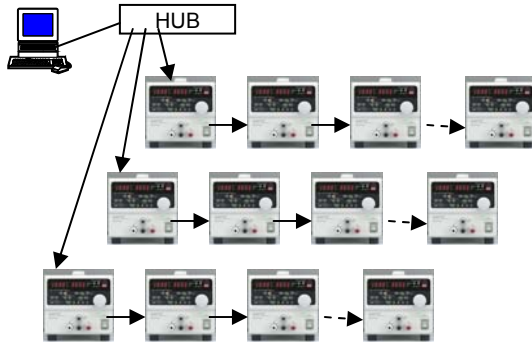
USB Remote Control

IF-41GU or IF-41USB is built in the PW-A series and connects with the PC by the USB cable via hub. The number that can be directly connected with the PC is up to 32 sets. (The hub is excluded.) A power supply connected with the PC becomes a local bus master set, and the local bus master set can be connected with up to 31 slave sets. The power supply that can be controlled with this USB remote control is only PW-A series or PAR-A series.

● System 1



● System 2



Note: Twist cable as follow must be used to connect at USB control.

- Single cable: $\phi 0.4$ to $\phi 1.2$
- Twist cable: 0.3mm^2 to 1.2mm^2 /AWG 16 to 22 (Diameter of single cable: $\phi 0.18$)
- Impedance: 50Ω or less

GP-IB Remote Control (IF-41GU)

IF-41GU is built in the PW-A / PAR-A series and connects with the PC directly by the GP-IB cable. The number that can be directly connected with the PC is up to 14 sets. A power supply connected with the PC becomes a local bus master set, and the local bus master set can be connected with up to 31 slave sets. The PW-A series correspond to the wide usage as a programmable power supply by the listener / talker function to read the function setting, output voltage and output current.



IF-41RS

RS-232C Remote Control

IF-40RS is built in the PW-A / PAR-A series and connects with the PC by the RS-232C cable. It is possible to operate as a programmable power supply with the listener and talker function. The number that can be controlled with the PC is up to 4 sets.



Note: Connection with PC and slave sets using modular cable (user option).

Master Operation (One Control Operation)

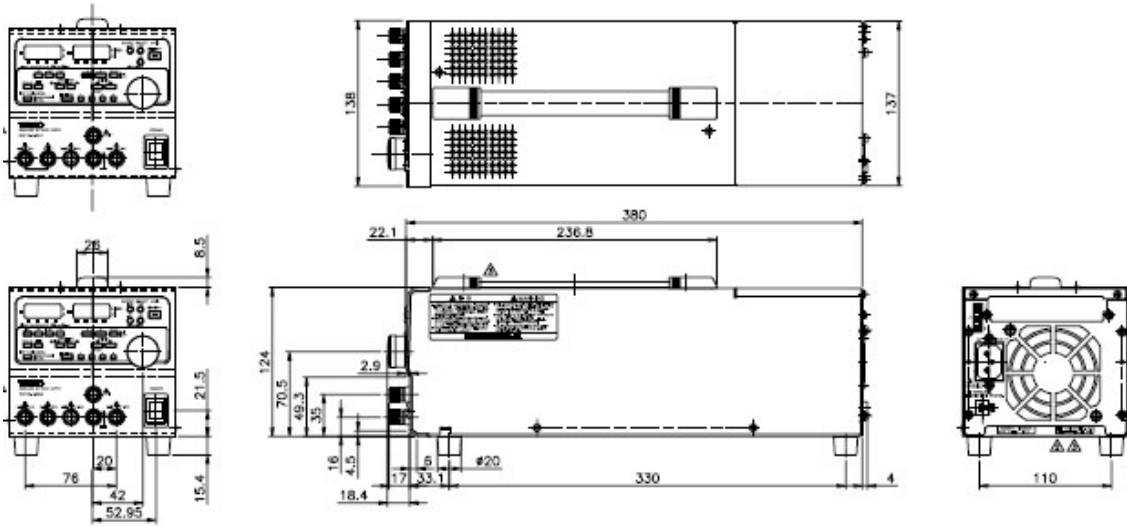
A power supply which builds in the RS-232C Interface Card (IF-41RS) becomes a master set, and the master set can be connected with up to 4 slave sets.

- Master and slave sets are limited to the same model.
- When the master operation is started, the slave sets enter a remote state and can not operate the front panel.



Note: Connection with master and slave sets using modular cable (user option).

Control item	GP-IB control	USB control	RS-232C control	Master operation
Output voltage setting (PRESET/VARIABLE)	○	○	○	○
Output current setting (PRESET/VARIABLE)	○	○	○	○
Tracking function, ON/OFF setting	○	○	○	○
Tracking output selection	○	○	○	○
Tracking mode setting (Absolute value, %)	○	○	○	○
Tracking voltage and current value setting	○	○	○	○
ON/OFF of main output	○	○	○	○
ON/OFF of output selection	○	○	○	○
ON/OFF of output delay function	○	○	○	○
DELAY TIME setting	○	○	○	○
Indicate content selection of LED display	○	○	○	○
Pre-setting selection (1 to 4)	○	○	○	○
LOCAL setting	○	○	○	○
LOCAL lock out setting	○	○	○	○
Prohibit and permit setting of SRQ	○	○	○	○
Saving of setting data (PRESET 1 to 4)	○	○	○	○
Status				
Output request of voltage and current value	○	○	○	○
Output request of CV/CC operation mode	○	○	○	○
Output request of all pre-set contents	○	○	○	○
Output request of all situation	○	○	○	○
Output request of ID information	○	○	○	○
Listener function				
Voltage and current value output	○	○	○	○
CV/CC operation mode output	○	○	○	○
All pre-set contents output	○	○	○	○
All situation output	○	○	○	○
ID information output	○	○	○	○
Talker function				
Service request				
CV/CC operation mode monitoring	○	○	○	○
Alarm condition monitoring	○	○	○	○



Option

Control boards



IF-41GU

GP-IB/USB control board



IF-41RS

RS-232C control board



IF-41USB

USB control board

GP-IB Cable
CB-2420P

Rack Mount Adapter
RM-608J (JIS) **RM-608E** (EIA)

Rack Mount Attachment
RJ-608-PW (for three units)

Modular Cable

CB-0603S (30cm) **CB-0615S** (1.5m) **CB-0630S** (3.0m) **CB-06100S** (10m)

Blank Panel

RB-608A (1/2) **RB-608B** (1/3) **RB-608C** (1/4) **RB-608D** (1/6) **RB-608E** (1/12)

Factory Option

The YB option is available. This factory option lowers the output voltage quickly when output is turned off with no load or light load. "YB" is added to the product code of a model with this option. (Example: PAR18-6AYB)

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