KIKUSUI Part No. Z1-006-960, I0033801
Dec 2020

Instruction manual

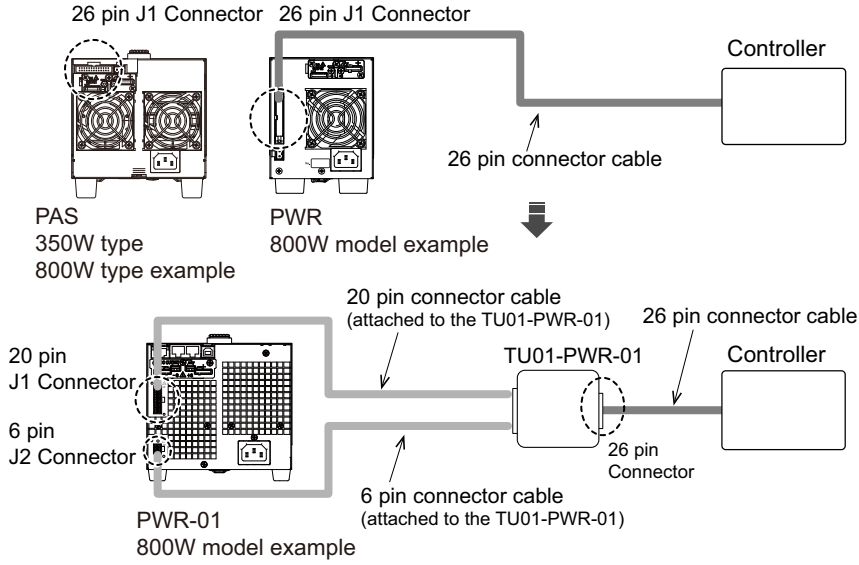
Terminal Unit TU01-PWR-01

This terminal unit is used to convert the 20-pin J1 connector and 6-pin J2 connector of the Kikusui PWR-01 Series Regulated DC Power Supply into the 26-pin J1 connector of the PAS or PWR Series Regulated DC Power Supply.

This product makes it easy to transfer the external control of the PAS or PWR series to the PWR-01 Series.

It cannot be used for parallel operation or series operation.

Before you use the product, thoroughly read the warnings and precautions that are written in the series series Regulated DC Power Supply operation manual. Connect this product only to a PWR-01 series.

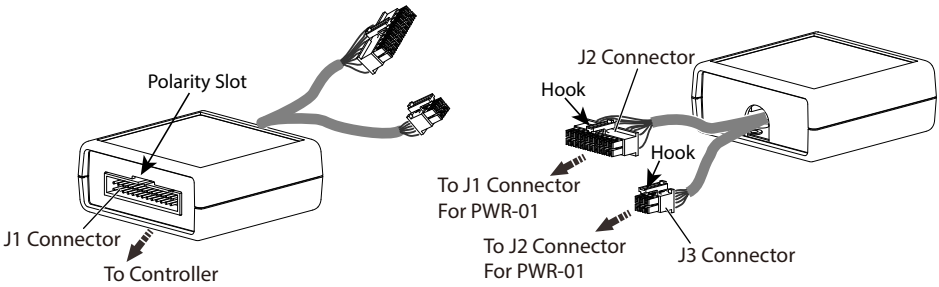


Components

Check that all parts are included and that they are not damaged. If any of the parts are damaged or missing, contact your Kikusui agent or distributor.

- ☐ TU01-PWR-01 (1 pc.)
- ☐ Instruction manual (This manual, 1 pc.)

Part Names and Functions



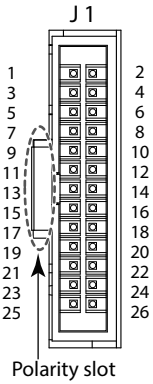
Name	Function
J1 connector	MIL 26 pin connector (Controller side)
J2 connector	20 pin connector (PWR-01 series J1 side)
J3 connector	6 pin connector (PWR-01 series J2 side)

TU01-PWR-01 Specifications

Environment	Installation location	Indoors, at a height of up to 2000 m
	Operating Temperature and Humidity	0 °C to 50 °C (32 °F to 104 °F), 20 %rh to 85 %rh (no condensation)
	Storage Temperature and Humidity	-10 °C to 60 °C (14 °F to 140 °F), 90 %rh or less (no condensation)
Dimensions		66.5 mm x 66.5 mm x 28 mm (2.62 inch x 2.62 inch x 1.10 inch) Length: Approx. 270 mm (10.63 inch)
Weight		Approx. 110 g (0.24 lb.)

Pin arrangement of the 26 pin J1 connector

The pin arrangement of the TU01-PWR-01's J1 connector is the same as that of the PAS and PWR series' J1 connector.
Pins 6, 7, 11 to 16 and pins 23 to 26 are not connected.



Pin No.	Signal Name	Description
1	A COM	When remote sensing is not used, this is at the same electric potential as the negative output terminal. When remote sensing is used, this is at the same electric potential as the negative electrode (-S) of sensing input.
2	D COM[*1]	When remote sensing is not used, this is at the same electric potential as the negative output terminal. When remote sensing is used, this is at the same electric potential as the negative electrode (-S) of sensing input.
3	OUTPUT CONT	Output on/ off terminal. On when set to LOW or shorted; off when set to HIGH or open (CF15: L o). On when set to HIGH or open; off when set to LOW or shorted (CF15: H).
4	EXT-V CV CONT	Terminal used to control the output voltage with an external voltage.[*2]
5	EXT-V CC CONT	Terminal used to control the output current with an external voltage.[*2]
6	—	—
7	—	—
8	VMON	Output voltage monitor.[*3]
9	IMON	Output current monitor.[*3]
10	SHUT DOWN	Output shutdown control terminal. The output is turned off when set to LOW or shorted.
11	—	—
12	—	—
13	—	—
14	—	—
15	—	—
16	—	—
17	STATUS COM	Common for status signals. The status common is floating (isolation voltage of 800 V or less). It is isolated from the control circuit.
18	CV STATUS	Outputs a signal during CV mode.[*4]
19	CC STATUS	Outputs a signal during CC mode.[*4]

Pin No.	Signal Name	Description
20	ALM STATUS	Outputs a signal when a protection function is activated or when an output shutdown signal is being received.*4
21	OUT ON STATUS	Outputs a signal when output is on.*4
22	PWR ON STATUS*5	Outputs a low level signal when the power is on.*4
23	—	—
24	—	—
25	—	—
26	—	—

*1. PWR-01 series's A COM and D COM are the same.
*2. 0 V to 5 V; 0 % to 100 % of the rated (CF12: Lo). 0 V to 10 V; 0 % to 100 % of the rated (CF12: Hi).
*3. 0 % to 100 % and 10 V (CF13: Hi).
*4. Output through an open-collector photocoupler. Open collector output: Maximum voltage: 30 V. Maximum current: 8 mA.
*5. PWR OFF STATUS on the PAS series has been changed to PWR ON STATUS on the PWR-01 series.

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