

0.01 % grade - high-precision DC tester **PIU SERIES** PIU600~PIU1500



		110000	
	Measurement range limit	600A	
	Measurement range	(0~110%)RG	
DC current	Measurement accuracy	±0.01%RD(30A≤I≤600A)	
	Measurement resolution	0.001%RD(30A≤I≤600A)	
	Measurement range limit	1000V	
DOwelland	Measurement range	(0~110%)RG	
DC voltage	Measurement accuracy	±0.01%RD(50V≤U≤1000V)	
	Measurement resolution	0.001%RD(50V≤U≤1000V)	
DC power	Measurement accuracy	±0.01%RD	
		(50V≤U≤1000V, 30A≤I≤600A)	
	Work power supply voltage	AC85V ~ 265V, 50/60Hz	
	Preheat time	≤30 minutes	
	Operating temperature	10°C ~ 35°C	
Other Parameters	Relative humidity	≤85%, no corrosive gas	
	Size	320mm*180mm*110mm	
		(length * width * height) (excluding bulge)	
	Weight	3.0kg	

Product model

Electricity measurement Solution provider

High-precision current sensor | voltage sensor | electrical measuring instrument

PIU600~PIU1500 PIU series

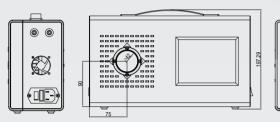
PIU1000

PIU1500

1000A	1500A	
(0~110%)RG	(0~110%)RG	
±0.01%RD(50A≤I≤1000A)	±0.01%RD(75A≤I≤1500A)	
0.001%RD(50A≤I≤1000A)	0.001%RD(75A≤I≤1500A)	
1000V	1000V	
(0~110%)RG	(0~110%)RG	
±0.01%RD(50V≤U≤1000V)	±0.01%RD(50V≤U≤1000V)	
0.001%RD(50V≤U≤1000V)	0.001%RD(50V≤U≤1000V)	
±0.01%RD	±0.01%RD	
(50V≤U≤1000V, 50A≤I≤1000A)	(50V≤U≤1000V, 75A≤I≤1500A)	
AC85V ~ 265V, 50/60Hz	AC85V ~ 265V, 50/60Hz	
≤30 minutes	≤30 minutes	
10°C ~ 35°C	10°C ~ 35°C	
≤85%, no corrosive gas	≤85%, no corrosive gas	
320mm*180mm*110mm	320mm*180mm*110mm	
(length * width * height) (excluding bulge)	(length * width * height) (excluding bulge)	
3.0kg	3.0kg	
0		

0.01 % grade - high-precision DC tester **PIU SERIES** PIU2000~PIU10000





Product mode	el	PIU2000	PIU5000	PIU10000
	Measurement range limit	2000A	5000A	10000A
DC current	Measurement range	(0~110%)RG	(0~110%)RG	(0~110%)RG
	Measurement accuracy	±0.01%RD(100A≤I≤2000A)	±0.01%RD(250A≤I≤5000A)	±0.01%RD(500A≤I≤10000A)
	Measurement resolution	0.001%RD(100A≤I≤2000A)	0.001%RD(250A≤I≤5000A)	0.001%RD(500A≤I≤10000A)
	Measurement range limit	1000V	1000V	1000V
DC voltage	Measurement range	(0~110%)RG	(0~110%)RG	(0~110%)RG
DC voltage	Measurement accuracy	±0.01%RD(50V≤U≤1000V)	±0.01%RD(50V≤U≤1000V)	±0.01%RD(50V≤U≤1000V)
	Measurement resolution	0.001%RD(50V≤U≤1000V)	0.001%RD(50V≤U≤1000V)	0.001%RD(50V≤U≤1000V)
DC power	Measurement accuracy	±0.01%RD	±0.01%RD	±0.01%RD
		(50V≤U≤1000V, 100A≤I≤2000A)	(50V≤U≤1000V, 250A≤I≤5000A)	(50V≤U≤1000V, 500A≤I≤10000A)
	Work power supply voltage	AC85V ~ 265V, 50/60Hz	AC85V ~ 265V, 50/60Hz	AC85V ~ 265V, 50/60Hz
-	Preheat time	≤30 minutes	≤30 minutes	≤30 minutes
	Operating temperature	10°C ~ 35°C	10°C ~ 35°C	10°C ~ 35°C
Other Parameters	Relative humidity	≤85%, no corrosive gas	≤85%, no corrosive gas	≤85%, no corrosive gas
	Size	320mm*180mm*110mm	320mm*180mm*110mm	320mm*180mm*110mm
		(length * width * height) (excluding bulge)	(length * width * height) (excluding bulge)	(length * width * height) (excluding bulge)
	Weight	1	1	/

TYPICAL APPLICATION PIU Series - Typical applications

Application Overview

The battery charging and discharging testing system mainly consists of a microcomputer control unit, a charging unit (DC stable power supply), a discharging unit (DC electronic load), a charging/discharging switching unit, a measuring unit, etc.

The battery charging and discharging testing system is a device that regulates and protects battery charging and discharging by establishing charging and discharging parameters. The typical voltage range can be regulated throughout the battery charging and discharging operation to prevent overcharging or discharging of the battery. The typical current range can be set. When the test reaches the specified value, it will immediately terminate. The battery charging and discharging testing system is primarily used to detect the battery's current, voltage, capacity, internal resistance, charging and discharging temperature, battery cycle life, etc. There are many channels to choose from and different battery models and types can be tested at the same time.

◎ The parameters of the battery charging and discharging testing system that must be measured

- Voltage range: 100mV~1000V, maximum allowable error: ± (0.02% -5%);
- Voltage measurement range: 100mV~1000V, maximum allowable error: ± (0.02% -5%);
- Setting range of charging and discharging current: 10mA~1500A, maximum allowable error: ± (0.05% -5%);
- The charging and discharging current measurement range is 10mA~1500A, with maximum allowable error: ± (0.05% -5%).

◎ PIU series high-precision DC tester parameters

- Voltage measurement range: ± (0.1V -1000V), maximum allowable error: ± 0.005%:
- Current measurement range: 10mA~2000A, maximum allowable error: ± 0.005%





The above parameters demonstrate that the accuracy of the PIU series high-precision DC tester is at least two orders of magnitude greater than the parameters required by the battery charging and discharging testing system for metrological verification, fully meeting the needs of the battery charging and discharging testing system for metrological verification