Power Electric Tester

III. TH7100 Series Programmable AC Power Supply

Features

- 24-bit color 4.3-inch 480 × 272 color LCD screen, Chinese and English interfaces
- Linear output design
- Flexible and convenient operation: numeric keypad, coarse and fine adjustment knob
- Manual / program control mode output function, timing output function, dimming mode output function, surge and notch function
- Front panel output function
- Boot hold function
- Store setting parameters and test results
- Support USB to upgrade the instrument firmware
- Multiple protection modes: set the current protection (HI-A) Overvoltage Protection (OVP), Low Voltage Protection (LVP) Overcurrent protection (OCP), over power protection (OPP) Over temperature protection (OTP)
- Two-gear temperature to control fan speed
- Remote input and output functions:
  Remote input: input control of 7 groups of memory
  Remote output: PASS, FAIL, PROCESSING, internal output switch
- Memory capacity:
  Manual: 50 groups
  Program control: 50 groups, 9 steps / group

RS232	REMOTE	USB HOST	USB DEVICE	GPIB
standard	standard	standard	standard	option

TH7110
Dimension(mm): 430(W)×88(H)×600(D)
Weight: 40kg

Application

- Motors and transformers
- Electronic production design
- Lighting
- Aerospace military
- Network communication
- Audio and video equipment
- Monitoring equipment
- Power specifications simulation of different countries
- Electromagnetic compatibility equipment

Specifications

Model		TH7105		TH7110		TH7120
Output parameters						
Rated power		500W		1000W		2000W
Output voltage		0～300V				
Output frequency		45.0Hz～500Hz				
Maximum current (RMS)	0-150V	4.2A		8.4A		16.8A
	0-300V	2.1A		4.2A		8.4A
Maximum current (Peak)	0-150V	16.8A		33.6A		67.2A
	0-300V	8.4A		16.8A		33.6A
Total harmonic distortion (THD		at 45.0 ~ 500Hz, ≤ 0.5% (resistive load)				
Common parameters	Phase	1Ø/2W				
	Crest factor	≥4				
	Linearity adjustment rate	0.1%±10%				
	Load regulation	0.5%(resistive load)				
	Response time	<100uS				
Setting parameters						
Voltage		0 ~ 300V	Resolution	0.1V	Accuracy	±0.5%+2 digits
Frequency		45.0Hz ~ 500Hz		<100Hz: 0.1Hz ; ≥100Hz: 1Hz		±0.02%
Initial / final phase angle		0 ~ 359°		1°		±1°(45 ~ 65Hz)
Measurement parameters						
Voltage		0 ~ 300V	Resolution	0.1V	Accuracy	±0.5%+2 digits
Frequency		45.0Hz ~ 500Hz		<100Hz: 0.1Hz ; ≥100Hz: 1Hz		±0.1Hz
Current	0-150V	0.000 ~ 4.200A		0.000 ~ 8.400A		0.000 ~ 16.800A
	0-300V	0.000 ~ 2.100A		0.000 ~ 4.200A		0.000 ~ 8.400A
	Resolution	0.001A				
	Accuracy	±0.5%+5 digits				
Peak current	0-150V	0.00 ~ 12.6A		0.00 ~ 25.2A		0.00 ~ 50.4A
	0-300V	0.00 ~ 6.3A		0.00 ~ 12.6A		0.00 ~ 25.2A
	Resolution	0.01A				
	Accuracy	±5%+2 digits				
Power	Range	0 ~ 500W		0 ~ 1000W		0 ~ 2000W
	Resolution	0.1W				0.1W(0 ~ 1000W);1W(1000 ~ 2000W)
	Accuracy	±0.6%+5 digits				
Power factor		0.001-1.000	Resolution	0.001	Accuracy	±2%+2 digits