

Component Parameter Test Instruments

I. TH1778A Series DC Bias Current Source

Features

- Features
- Provide 0-20A constant current output
- Support the extension to the maximum 120A constant current output
- Master/slave control mode, flexible tailorability and scalability
- Fine current stepping
- 0Hz-2MHz frequency response
- Two current output modes: single current and step scan
- Graphical operation, Chinese and English interface
- Two SCPI command modes, strong adaptability
- 5 control modes
- Directly controlled by TH2829/TH2827/TH2830/TH2838 series



TH1778A

TH1778AS

Applications

- Analysis of DC Characteristics of Inductors/Reactors
- Analysis of saturation characteristics of iron core/ferrite material
- Analysis of DC Characteristics of Other Materials

RS232	SlaveLink
standard	standard

TH1778A Series

Dimension(mm): 430mm(W)x177mm(H)x473mm(D)

Weight: 18kg

Specifications

Model	TH1778A		TH1778B	TH1778AS
Display	7 " 800*600 RGB TFT LCD			-----
Operation	Entitative key + foot switch			Controlled by the host
Supporting test frequency	0Hz-2MHz			
Current Range	0-±20A		0-±20A (No Extension)	0-±20A, can extend to 120A
Current	Range	0mA-1.000A	1.000A-5.000A	5.0A-120.0A
	Step	5mA	25mA	100mA
	Sweep adjustment time	4ms-3600s	10ms-3600s	20ms-3600s
	Minimum interval of sweep adjustment step	5mA	25mA	100mA
Range	1.000A/5.000A/20.0A			20.0A
Maximum output voltage	10V			
Maximum permitted DCR	$R_{max}=V_{max}/I$ (Ω)(Calculation of Rmax, please refer to the description in user manual)			
Maximum permitted inductance value	$L_{max}=V_{max}/(di/dt)$ (mH)(Calculation of Lmax, please refer to the description in user manual)			
Range mode	Auto			
Control mode for START/STOP	START/STOP entitative key, 4 foot switches, Bus			
Max. current time for continuous loading	Keeping 2-3h, continuous output			
Function	Fault self-inspection; 99 groups of custom profile management; dual-progress bar indication; Chinese and English; soft switching of slave machine; real-time operation; SCPI command set; simple dual-display computer.			
LCR Compatible	Controlled by TH2829/TH2827/TH2830/TH2838			Controlled by the host
Interface	RS232, Slaver Link			Slaver Link