34110A-11

High Slew-Rate Compact High Power DC Electronic Load （100A/µS）

Rise time 8.92uS, 100A/uS Setting

Rise time 7.56uS, 100A/uS Setting

Rise time 10.2uS, 10A/uS Setting

Features

- Slew-Rate：Up to 100A/µS
- Maximum power up to 80KW
- Maximum up to 8 units master / slave parallel control
- 5 digit V/A/W Meter.
- High-speed measurement and communication transmission.
- Large LCD Display、setting values can be adjusted by rotary knob or push button.
- Voltage、Current and Watt value can be displayed simultaneously.
- Capable for Power Factor Correction (PFC) Test. (for 600V,1000V models)
- OCP、OPP test function automatically.
- Power ON status can be set.
- CC, CR, CV, CP, Dynamic and Short operation mode.
- SHORT time setting.
- Protections against I,W,°C and over-voltage alert.
- Voltage meter display the polarity positive （"＋"） or negative （"－"） is selectable.
- Short, OCCP and OCDP function test for BMS protection board is provided (option).
- Option:Emergency Stop and Analog Control are available.
- Optional Interface : GPIB、RS232、USB、LAN.
- 0.7V @ 1000A is on Static condition, and the starting voltage must be greater than 5V, if on Dynamic condition that is 5V @ 1000A.

Descriptions

- 34000A Series has its own control and display panel, CC / CR / CV / CP / Dynamic modes, 150 sets Store / Recall memory which provides load set-up more efficiently, also can be remote controlled via GPIB、RS232、USB and LAN interface.
- SHORT time setting and SHORT_VH, SHORT_VL setting function, also can measure Short Voltage and Current.
- Dynamic can be simulated under CC, CP mode. The current Rise / Fall slew rate can be adjusted individually and there is an external signal input for a Arbitrary Waveform to simulate load current.
- Single key for OCP、OPP test function will be more efficiency and accuracy on OCP、OPP testing.
- Programmable Load ON/OFF voltage, GO/NG meter check, Voltage meter display " ＋ " or " － " is selectable and 150 sets Store/Recall larger memory is much advance feature for each different application.
- 150 sets test parameter and status storage function, user can recall the storage memory real time in accordance with the auto sequence requirement.
- Maximum Voltage up to 1000V provide an idea testing solution for Power Factor Correction test.
- Master / Slave control units maximum are up to 1 MASTER, 7 SLAVES.

Applications

- Voltage / Current source
- SMPS transient response
- CV/Current limit testing and battery emulation
- Battery charger
- Battery discharge
- R&D Quality Control
- ATE system
- Production testing

Specifications

MODEL	34110A-11	
Power	10KW	
Current	0 ~ 150A	0 ~ 1500A
Voltage	0 ~ 60V	
Min. Operating Voltage	0.1V @ 150A	1V @ 1500A
Protections		
Over Power Protection (OPP)	105%	
Over Current Protection (OCP)	104%	
Over Voltage Protection (OVP)	105%	
Over Temp Protection (OTP)	Yes	
Constant Current Mode		
Range*1	0-150A	0-1500A
Resolution	2.4mA	24mA
Accuracy	± (0.1% Setting+ 0.2% Range)	
Constant Resistance Mode		
Range	2400-0.04ohm	0.04-0.0007ohm
Resolution	555.5uS	0.7uΩ
Accuracy	±0.2% of (Setting + Range)	
Constant Voltage Mode		
Range	60V	
Resolution	1mV	
Accuracy	±0.05% of (Setting + Range)	
Constant Power Mode		
Range	1000W	10000W
Resolution	16mW	160mW
Accuracy	± 0.5% of (Setting + Range)	
Constant Voltage Mode + Constant Current Mode		
Range	60V	1500A
Resolution	1mV	24mA
Accuracy	± 1.0% of (Setting + Range)	
Constant Voltage Mode + Constant Power Mode		
Range	60V	10000W
Resolution	1mV	160mW
Accuracy	± 1.0% of (Setting + Range)	
MPPT Mode		
Algorithm	P&O + Scanning	
Load mode	CC, CR,CV (MPPT C, R, V)	
Sampling interval	10ms~2000ms ; resolution 1ms	
P&O interval	10ms~2000ms ; resolution 1ms	
Memory situation	Discard old data and keep catching new data	
Dynamic Mode		
Timing		
Thigh & Tlow	0.010~9.999 / 99.99 / 999.9 / 9999mS	
Resolution	0.001 / 0.01 / 0.1 / 1mS	
Accuracy	1μS/10μS/100μS/1mS + 50ppm	
Slew Rate	0.16A~10A/μS	1.6A~100A/μS
Resolution	0.04A/μS	0.4A/μS
Min. Rise Time	10μs(typical)	
Current		
Range	0~150A	150~1500A
Resolution	2.4mA	24mA
Measurement		
Voltage Read Back		
Range (5 Digital)	0~6V	6~60V
Resolution	0.1mV	1mV
Accuracy	±0.025% of (Reading + Range)	
Current Read Back		
Range (5 Digital)	0~150A	150~1500A
Resolution	2.4mA	24mA
Accuracy	±0.1% of (Reading + Range)	
Power Read Back		
Range (5 Digital)	0~1000W	10000W
Resolution	0.01W	1W
Accuracy	±0.125% of (Readingg + Range)	
General		
Short Circuit		
Current	1500A	
Load ON Voltage	0.1 ~ 25V	
Load OFF Voltage	0 ~ 25V	
Power Consumption	1000VA	
Operating Temperature*2	0~40℃	
Dimension (HxWxD)	573x647x766mm	
HxWxD (Not included wheels)	469x647x766mm	
Weight	130 kg	
Safety & EMC	CE	

Cooling : Advanced Fan Cooled

Input AC Power : ① Load-20KW（include）: 100~230 Vac ±10%，50/60Hz

② Load-25KW above（include）: 200~230 Vac ±10%，50/60Hz

Note*1 : The range is automatically or forcing to range II only in CC Mode

Note*2 : Operating temperature range is 0~40℃，all specifications apply for 25℃±5℃

Note*3 : 0.7V @ 1000A is on Static condition, and the starting voltage must be greater than 5V, if on Dynamic condition that is 5V @ 1000A

Order Information

Optional interface :

❶ GPIB Card
❷ RS232 Card
❸ USB Card
❹ LAN Card

Options : Hook ring

x4

34110A-11 60V, 1500A, 10KW