AC/DC Electronic Load AN29(F) Series

Ainuo /// Electronic Load



Product Introduction

AN29(F) Series AC/DC electronic load has flexible parallel and online functions. When multiple units are connected in parallel, they can expand the current and power, meeting testing requirements of high-power single-phase power supplies. When three-phase online, a three-phase load is formed to meet the three-phase power testing requirements. Multiple units can also be connected in parallel to form a high-power three-phase electronic load.

Features

CE

Power Capacity: 1400W~ 8400W

Working voltage is low to 2V, and up to 350Vrms

Current range: 10Arms~60Arms, peak current: 45A~ 270A

Frequency range: 44~ 1000Hz, DC

Peak factor: 1.4 ~ 5.0000

- Adjustable power factor, setting range 0-1.0
- 3 units in parallel to realize 3 phase load
- Work mode: Constant current CC, constant resistance CR, constant power CP
- Current shift: current shift can be adjusted under testing
- DC: Static loading, dynamic loading, 40 programming steps
- AC: Waveform simulation, sine, 3-15 harmonic, phase gate,
- Upper/lower limits adjustment, over limit alarming(GO/NG)
- Remote voltage detect sense port, used for precise
- measurement, eliminate wires voltage drop
- Protection function: Over voltage, over current, over power, over heat, DC reversed polarity
- Measurement parameter: U, I, P, F and PF

Order information and extended functions

AN29201(F): AC/DC Electronic Load 260V/10A/1400W
AN29202(F): AC/DC Electronic Load 260V/20A/2800W
AN29203(F): AC/DC Electronic Load 260V/30A/4200W

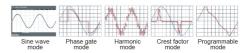
AN29204(F): AC/DC Electronic Load 260V/40A/5600W
AN29205(F): AC/DC Electronic Load 260V/50A/7000W

AN29206(F): AC/DC Electronic Load 260V/60A/8400W

RS485, GPIB optional

Production Function

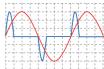
Waveform simulation



Test Function

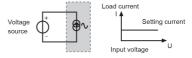
Power factor test

Simulate inductive and capacitive load, PF is from 0 to 1. If load current phase shift and PF are both need to set, PF can be set on front panel easily, do not need wire connection.



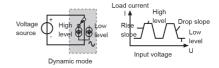
Regulation test

Under CC mode, load current is just changing setting value, not with DUT output voltage. Please refer to the characteristic curve.



Dynamic performance test

Dynamic mode is switching between 2 levels in cycle, please refer to the characteristic curve. Dynamic current rising/dropping slope can be adjusted separately.



Programmable steps

4 groups, 10 steps/group. 4 groups can be parallel into 40 steps, and also can be divided into separated steps.



Programmable steps loading waveform

Programmable DC loading waveform

Connect in parallel and series

3 units in parallel to realize 3 phase load.

Specifications

	Model	AN29201(F)	AN29202(F)	AN29203(F)	AN29204(F)	AN29205(F)	AN29206(F)
Power		1400W	2800W	4200W	5600W	7000W	8400W
Current		0-10Arms(45Apeak) 0-20Arms(90Apeak) 0-30Arms(135Apeak) 0-40Arms(180Apeak) 0-50Arms(225Apeak) 0-60Arms(270Apeak) 0-60Arms(27					
Voltage Frequescy		2V- 260Vrms (360 Vpeak), customizable 2V-350Vrms (500Vpeak) 44 - 1000Hz, DC					
AC part: Constant Current Mode	Setting Range	0.2~10Arms,	0.2~20Arms,	0.2~30Arms,	0.4~40Arms,	0.4~50Arms,	0.4~60Arms,
		programmable	programmable	programmable	programmable	programmable	programmable
	Accuracy	DC/50/60/400Hz: 0.1% + 0.2% range					
	Resolution	2mA	5mA	5mA	7mA	9mA	10mA
Constant Resistance Mode	Setting Range	1Ω~1200Ω,	1Ω~600Ω,	1Ω~400Ω,	1Ω~300Ω,	1Ω~240Ω,	1Ω~200Ω,
		programmable	programmable	programmable	programmable	programmable	programmable
	Accuracy	DC/50/60/400Hz: Min. resistance ~ 1/2 Max. resistance: ± (1.5% setting value + 0.5% range);					
	5 10	greater than 1/2 Max. resistance - Max. resistance: + (3.5% setting value+0.5% range)					
	Resolution	0.2Ω	0.1Ω	0.067Ω	0.05Ω	0.04Ω	0.04Ω
Constant Power Mode	Setting Range	10W~1400W,	10W~2800W,	10W~4200WΩ,	10W~5600W,	10W~7000W,	10W~8400W,
	A	programmable	programmable	programmable	programmable	programmable	programmable
	Accuracy Resolution	DC/50/60/400Hz: 0.2% + 0.3% range 0.25W					
	Peak Factor	0.2500	U.5W	U./5VV	100	1.25VV	1.500
Peak Factor Mode		1.4~5.0, programmable					
	Setting Range Phase Shift Angle						
	Setting Range	-90°~+90°, programmable					
Coto Triago	Turn On Angle	0-359°					
Gate Trigge Mode	Turn off Angle	0-359°					
iviode	Frequency	1-15					
Harmonic Mode	Setting Range	0-1					
	Resolution	0-1					
Power Factor	Measurement Range	0~1 lead or lag	0~1 lead or lag	0~1 lead or lag	0∼1 lead or lag	0~1 lead or lag	0~1 lead or lag
	Measurement Accuracy		1% range	1% range	1% range	1% range	1% range
	Resolution	170 range	170 range	0.		170 range	170 range
	Voltage Working Range						
DC part	Current Setting Range	0.2A~10A	0.2A~20A	0.2A~30A	0.4A~40A	0.4A~50A	0.4A~60A
	Minimum Operating	0.27(10/(0.2/ (20/ (0.171 0071	0.171 0071
	Voltage	2V					
	Rise Time	1ms					
	Operating Mode	Constant current, constant resistance, constant power, dynamic					
	Short Circuit						
	Current Simulation	Use constant resistance mode					
Management	Voltage Measurement	01/ 0001/					
	Range	2V~260V, customizable 2V~350V					
	Voltage Measurement	DOI/0/(0/400) 0.40/ + 0.40/					
	Accuracy	DC/50/60/400Hz: 0.1% + 0.1% range					
	Voltage Resolution	100mV					
Measurement part	Current Measurement	0~10.00A	0~20.00A	0~30.00A	0~40.00A	0~50.00A	0~60.00A
part	Range	0 10.00A	0 20.00A	0 30.00A	0 40.00A	0 30.00A	0 00.00A
	Current Measurement	DC/50/60/400Hz: 0.1%+0.2% range					
	Accuracy						
	Current Resolution	2.0mA	4.0mA	6.0mA	8.0mA	10.0mA	12.0mA
	Other Parameters		Active power (W), app				
Others	Protection	"Overcurrent:	"Overcurrent:	"Overcurrent:	"Overcurrent:	"Overcurrent:	"Overcurrent:
		10.5Arms;	21Arms;	31.5Arms;	42Arms;	52.5Arms;	63Arms;
		Overvoltage:	Overvoltage:	Overvoltage:	Overvoltage:	Overvoltage:	Overvoltage:
		273Vrms;	273Vrms;	367Vrms;	273Vrms;	273Vrms;	273Vrms;
		Over power:	Over power:	Over power:	Over power:	Over power:	Over power:
		1470W;	2940W;	4410W;	2880W;	7350W;	8820W;
		Over temperature"	Over temperature"	Over temperature"	Over temperature"	Over temperature"	Over temperature"
	Control Interface	Standard: RS-232, USB; Optional: Ethernet port					
	Operating Voltage	115/230 Vac ± 10%					
	Dimension	440×222×465 440×354×465					
	WxHxD (mm)						
	Foot Height (mm)	15					