

34000A Series

High Power DC Electronic Load



HIGH POWER DC ELECTRONIC LOAD



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34000A Series Compact High Power DC Electronic Load



Features

- Maximum power up to 320KW
- 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.
- 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.
- Built-in soft-start circuit function allowing the U.U.T. power supply to be directly connected to the 342XA 、 343XA series load input terminal, no longer need a large relay switch with an external soft-start circuit.

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	34105A		34110A		34115A		34120A		34125A	
Power	5KW		10KW		15KW		20KW		25KW	
Current	0~100A	0~1000A	0~100A	0~1000A	0~100A	0~1000A	0~100A	0~1000A	0~100A	0~1000A
Voltage	0 ~ 60V		0 ~ 60V		0 ~ 60V		0 ~ 60V		0 ~ 60V	
Min. Operating Voltage	0.1V@100A	0.7V@1000A*	0.1V@100A	0.7V@1000A*	0.1V@100A	0.7V@1000A*	0.1V@100A	0.7V@1000A*	0.1V@100A	0.7V@1000A*
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*2	100A	1000A	100A	1000A	100A	1000A	100A	1000A	100A	1000A
Resolution	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA
Accuracy	± 0.05% of (Setting + Range)									
Constant Resistance Mode										
Range	3600Ω~0.06Ω	0.06Ω~0.001Ω	3600Ω~0.06Ω	0.06Ω~0.001Ω	3600Ω~0.06Ω	0.06Ω~0.001Ω	3600Ω~0.06Ω	0.06Ω~0.001Ω	3600Ω~0.06Ω	0.06Ω~0.001Ω
Resolution	277μS	0.001mΩ	277μS	0.001mΩ	277μS	0.001mΩ	277μS	0.001mΩ	277μS	0.001mΩ
Accuracy	± 0.2% of (Setting + Range)									
Constant Voltage Mode										
Range	60V									
Resolution	1mV									
Accuracy	± 0.05% of (Setting + Range)									
Constant Power Mode										
Range	500W	5000W	1000W	10000W	1500W	15000W	2000W	20000W	2500W	25000W
Resolution	8mW	80mW	16mW	160mW	24mW	240mW	32mW	320mW	40mW	400mW
Accuracy	± 0.1% of (Setting + Range)									
Constant Voltage + Current Limit Mode										
Range	60V	1000A	60V	1000A	60V	1000A	60V	1000A	60V	1000A
Resolution	1mV	16mA	1mV	16mA	1mV	16mA	1mV	16mA	1mV	16mA
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
Constant Voltage + Power Limit Mode										
Range	60V	5000W	60V	10000W	60V	15000W	60V	20000W	60V	25000W
Resolution	1mV	80mW	1mV	160mW	1mV	240mW	1mV	320mW	1mV	400mW
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
MPPT Mode										
Algorithm	P&O									
Load mode	CV									
P&O interval	1000ms~60000ms ; resolution 1000ms									
Dynamic Mode										
Timing										
Thigh & Tlow	0.150~9.999 / 99.99 / 999.9 / 9999ms									
Resolution	0.001 / 0.01 / 0.1 / 1ms									
Accuracy	1μs / 10μs / 100μs / 1ms + 50ppm									
Slew Rate	24mA~1.5A/μs	240mA~15A/μs	24mA~1.5A/μs	240mA~15A/μs	24mA~1.5A/μs	240mA~15A/μs	24mA~1.5A/uS	240mA~15A/uS	24mA~1.5A/uS	240mA~15A/uS
Resolution	6mA/μs	60mA/μs	6mA/μs	60mA/μs	6mA/μs	60mA/μs	6mA/μs	60mA/μs	6mA/μs	60mA/μs
Min. Rise Time	66.7μs (typical)									
Accuracy	± (5% of Setting) ±10μs									
Current										
Range	0~100A	100~1000A	0~100A	100~1000A	0~100A	100~1000A	0~100A	100~1000A	0~100A	100~1000A
Resolution	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA
Measurement										
Voltage Read Back										
Range (5 Digital)	0~6V	6~60V	0~6V	6~60V	0~6V	6~60V	0~6V	6~60V	0~6V	6~60V
Resolution	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV
Accuracy	± 0.025% of (Reading + Range)									
Current Read Back										
Range (5 Digital)	0~100A	100~1000A	0~100A	100~1000A	0~100A	100~1000A	0~100A	100~1000A	0~100A	100~1000A
Resolution	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA
Accuracy	± 0.05% of (Reading + Range)									
Power Read Back										
Range (5 Digital)	500W	5000W	1000W	10000W	1500W	15000W	2000W	20000W	2500W	25000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy	± 0.06% of (Reading + Range)									
General										
Short Circuit										
Current	1000A									
Load ON Voltage	0.1~25V									
Load OFF Voltage	0~25V									
Power Consumption	600Wmax		1000Wmax		1450Wmax		1900Wmax		2350Wmax	
Operating Temperature*4	0~40°C									
Dimension (HxWxD)	573x647x766mm		573x647x766mm		728x647x766mm		885x647x766mm		1041x647x766mm	
HxWxD (Not included wheels)	469x647x766mm		469x647x766mm		625x647x766mm		781x647x766mm		937x647x766mm	
Weight	100 Kg		130 kg		170 kg		220 kg		280 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 : 0.7V @ 1000A is on Static condition, and the starting voltage must be greater than 5V, if on Dynamic condition that is 5V @ 1000A

Note *2 : The range is automatically or forcing to range II only in CC mode

Note *3 : Power F.S. = Vrange F.S. x Irange F.S.

Note *4 : Operating temperature range is 0~40°C, All specifications apply for 25°C±5°C, Except as noted

Order Information

Optional interface :

Options :

- ① GPIB Card
- ② RS232 Card
- ③ USB Card
- ④ LAN Card



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34105A 60V, 1000A, 5KW

34110A 60V, 1000A, 10KW

34115A 60V, 1000A, 15KW

34120A 60V, 1000A, 20KW

34125A 60V , 1000A , 25KW

Specifications

MODEL	34130A		34135A		34140A		34205A		34210A	
Power	30KW		35KW		40KW		5KW		10KW	
Current	0~100A	0~1000A	0~100A	0~1000A	0~100A	0~1000A	0 ~ 16A	0 ~ 160A	0 ~ 32A	0 ~ 320A
Voltage	0 ~ 60V						0 ~ 600V			
Min. Operating Voltage							0.1V@100A	0.7V@1000A ¹	0.1V@100A	0.7V@1000A ¹
Protections										
Over Power Protection (OPP)	Yes						105%			
Over Current Protection (OCP)							104%			
Over Voltage Protection (OVP)							105%			
Over Temp Protection (OTP)										
Constant Current Mode										
Range ²	100A	1000A	100A	1000A	100A	1000A	16A	160A	32A	320A
Resolution	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	0.256mA	2.56mA	0.512mA	5.12mA
Accuracy	± 0.05% of (Setting + Range)									
Constant Resistance Mode										
Range	3600Ω~0.06Ω	0.06Ω~0.001Ω	3600Ω~0.06Ω	0.06Ω~0.001Ω	3600Ω~0.06Ω	0.06Ω~0.001Ω	15000Ω~3.75Ω	3.75Ω~0.063Ω	12500Ω~1.875Ω	1.875Ω~0.0315Ω
Resolution	277μS	0.001mΩ	277μS	0.001mΩ	277μS	0.001mΩ	4.4μS	63μΩ	8.8μΩ	0.0315mΩ
Accuracy	± 0.2% of (Setting + Range)									
Constant Voltage Mode										
Range	60V						600V			
Resolution	1mV						10mV			
Accuracy	± 0.05% of (Setting + Range)									
Constant Power Mode										
Range	3000W	30000W	3500W	35000W	4000W	40000W	500W	5000W	1000W	10000W
Resolution	48mW	480mW	56mW	560mW	64mW	640mW	8mW	80mW	16mW	160mW
Accuracy	± 0.1% of (Setting + Range)									
Constant Voltage + Current Limit Mode										
Range	60V	1000A	60V	1000A	60V	1000A	600V	160A	600V	320A
Resolution	1mV	16mA	1mV	16mA	1mV	16mA	10mV	2.56mA	10mV	5.12mA
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
Constant Voltage + Power Limit Mode										
Range	60V	30000W	60V	35000W	60V	40000W	600V	5000W	600V	10000W
Resolution	1mV	480mW	1mV	560mW	1mV	640mW	10mV	80mW	10mV	160mW
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
MPPT Mode										
Algorithm	P&O									
Load mode	CV									
P&O interval	1000ms~60000ms ; resolution 1000ms									
Dynamic Mode										
Timing										
Thigh & Tlow	0.150~9.999 / 99.99 / 999.9 / 9999ms									
Resolution	0.001 / 0.01 / 0.1 / 1ms									
Accuracy	1μs / 10μs / 100μs / 1ms + 50ppm									
Slew Rate	24mA~1.5A/uS	240mA~15A/uS	24mA~1.5A/μs	240mA~15A/μs	24mA~1.5A/μs	240mA~15A/μs	12.8mA~800mA/μs	128mA~8A/μs	25.6mA~1.6A/μs	256mA~16A/μs
Resolution	6mA/uS	60mA/uS	6mA/μs	60mA/μs	6mA/μs	60mA/μs	3.2mA/μs	32mA/μs	6.4mA/μs	64mA/μs
Min. Rise Time	66.7μs(typical)						20μs(typical)			
Accuracy	± (5% of Setting) ±10μs									
Current										
Range	0~100A	100~1000A	0~100A	100~1000A	0~100A	100~1000A	0~16A	16~160A	0~32A	32~320A
Resolution	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	0.256mA	2.56mA	0.512mA	5.12mA
Measurement										
Voltage Read Back										
Range (5 Digital)	0~6V	6~60V	0~6V	6~60V	0~6V	6~60V	0~60V	60~600V	0~60V	60~600V
Resolution	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	1mV	10mV	1mV	10mV
Accuracy	± 0.025% of (Reading + Range)									
Current Read Back										
Range (5 Digital)	0~100A	100~1000A	0~100A	100~1000A	0~100A	100~1000A	0~16A	16~160A	0~32A	32~320A
Resolution	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	0.256mA	2.56mA	0.512mA	5.12mA
Accuracy	± 0.05% of (Reading + Range)									
Power Read Back										
Range (5 Digital)	3000W	30000W	3500W	35000W	4000W	40000W	500W	5000W	1000W	10000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.01W	0.1W	0.01W	1W
Accuracy ³	± 0.06% of (Reading + Range)									
General										
Short Circuit										
Current	1000A						160A		320A	
Load ON Voltage	0.1~25V						0.4 ~ 100V		0.4 ~ 100V	
Load OFF Voltage	0~25V						0 ~ 100V			
Power Consumption	2800Wmax		3250Wmax		3700Wmax		600Wmax		1000Wmax	
Operating Temperature ⁴	0~40°C									
Dimension (HxWxD)	1197x647x766mm		1353x647x766mm		1509x647x766mm		573x647x766mm		573x647x766mm	
HxWxD (Not included wheels)	1093x647x766mm		1249x647x766mm		1405x647x766mm		469x647x766mm		469x647x766mm	
Weight	340 Kg		390 kg		430 kg		100 kg		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 : 0.7V @ 1000A is on Static condition, and the starting voltage must be greater than 5V, if on Dynamic condition that is 5V @ 1000A

Note *2 : The range is automatically or forcing to range II only in CC mode

Note *3 : Power F.S. = Vrange F.S. x Irange F.S.

Note *4 : Operating temperature range is 0~40°C, All specifications apply for 25°C±5°C, Except as noted

Order Information

Optional interface :

Options :

- ① GPIB Card
- ② RS232 Card
- ③ USB Card
- ④ LAN Card



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34130A 60V, 1000A, 30KW



34135A 60V, 1000A, 35KW



34140A 60V, 1000A, 40KW



34205A 600V, 160A, 5KW



34210A 600V, 320A, 10KW

Specifications

MODEL	34215A		34220A		34225A		34230A		34235A	
Power	15KW		20KW		25KW		30KW		35KW	
Current	0 ~ 48A		0 ~ 64A		0 ~ 80A		0 ~ 96A		0 ~ 112A	
Voltage	0 ~ 480A		0 ~ 640A		0 ~ 800A		0 ~ 960A		0 ~ 1120A	
Min. Operating Voltage	20V @ 480A		20V @ 640A		20V @ 800A		20V @ 960A		20V @ 1120A	
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	48A	480A	64A	640A	80A	800A	96A	960A	112A	1120A
Resolution	0.768mA	7.68mA	1.024mA	10.24mA	1.28mA	12.8mA	1.536mA	15.36mA	1.792mA	17.92mA
Accuracy	± 0.05% of (Setting + Range)									
Constant Resistance Mode										
Range	15000Ω~1.25Ω	1.25Ω~0.021Ω	11250Ω~0.9375Ω	0.9375Ω~0.01575Ω	11250Ω~0.75Ω	0.75Ω~0.0126Ω	12500Ω~0.625Ω	0.625Ω~0.0105Ω	6428.4Ω~0.5357Ω	0.5357Ω~0.009Ω
Resolution	13.3μs	0.021mΩ	17.7μs	0.01575mΩ	22.2μs	0.0126mΩ	26.6μs	0.0105mΩ	31.1μs	0.009mΩ
Accuracy	±0.2% of (Setting + Range)									
Constant Voltage Mode										
Range	600V									
Resolution	10mV									
Accuracy	± 0.05% of (Setting + Range)									
Constant Power Mode										
Range	1500W	15000W	2000W	20000W	2500W	25000W	3000W	30000W	3500W	35000W
Resolution	24mW	240mW	32mW	320mW	40mW	400mW	48mW	480mW	56mW	560mW
Accuracy	± 0.1% of (Setting + Range)									
Constant Voltage + Current Limit Mode										
Range	600V	480A	600V	640A	600V	800A	600V	960A	600V	1120A
Resolution	10mV	7.68mA	10mV	10.24mA	10mV	12.8mA	10mV	15.36mA	10mV	17.92mA
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
Constant Voltage + Power Limit Mode										
Range	600V	15000W	600V	20000W	600V	25000W	600V	30000W	600V	35000W
Resolution	10mV	240mW	10mV	320mW	10mV	400mW	10mV	480mW	10mV	560mW
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
MPPT Mode										
Algorithm	P&O									
Load mode	CV									
P&O interval	1000ms~60000ms ; resolution 1000ms									
Dynamic Mode										
Timing										
Thigh & Tlow	0.050~9.999 / 99.99 / 999.9 / 9999ms									
Resolution	0.001 / 0.01 / 0.1 / 1ms									
Accuracy	1μs / 10μs / 100μs / 1ms + 50ppm									
Slew Rate	38.4mA~2.4A/μs	384mA~24A/μs	51.2mA~3.2A/μs	512mA~32A/μs	64mA~4A/μs	640mA~40A/μs	76.8mA~4.8A/μs	768mA~48A/μs	0.0896A~5.6A/μS	0.896A~56A/μS
Resolution	9.6mA/μs	96mA/μs	12.8mA/μs	128mA/μs	16mA/μs	160mA/μs	19.2mA/μs	192mA/μs	22.4mA/μs	224mA/μs
Min. Rise Time	20μs(typical)									
Accuracy	± (5% of Setting) ±10μs									
Current										
Range	0~48A	48~480A	0~64A	64~640A	0~80A	80~800A	0~96A	96~960A	0~112A	112~1120A
Resolution	0.768mA	7.68mA	1.024mA	10.24mA	1.28mA	12.8mA	1.536mA	15.36mA	1.792mA	17.92mA
Measurement										
Voltage Read Back										
Range (5 Digital)	0~60V	60~600V	0~60V	60~600V	0~60V	60~600V	0~60V	60~600V	0~60V	60~600V
Resolution	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV
Accuracy	±0.025% of (Reading + Range)									
Current Read Back										
Range (5 Digital)	0~48A	48~480A	0~64A	64~640A	0~80A	80~800A	0~96A	96~960A	0~112A	112~1120A
Resolution	0.768mA	7.68mA	1.024mA	10.24mA	1.28mA	12.8mA	1.536mA	15.36mA	1.792mA	17.92mA
Accuracy	± 0.05% of (Reading + Range)									
Power Read Back										
Range (5 Digital)	1500W	15000W	2000W	20000W	2500W	25000W	3000W	30000W	3500W	35000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy*2	± 0.06% of (Reading + Range)									
General										
Short Circuit										
Current	480A		640A		800A		960A		1120A	
Load ON Voltage	0.4 ~ 100V									
Load OFF Voltage	0 ~ 100V									
Power Consumption	1450Wmax		1900Wmax		2350Wmax		2800Wmax		3250Wmax	
Operating Temperature*3	0~40°C									
Dimension (HxWxD)	728x647x766mm		885x647x766mm		1041x647x766mm		1197x647x766mm		1353x647x766mm	
HxWxD (Not included wheels)	625x647x766mm		781x647x766mm		937x647x766mm		1093x647x766mm		1249x647x766mm	
Weight	170 kg		220 kg		280 kg		340 kg		390 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 : Power F.S. = Vrange F.S. x Irange F.S.

Note *3 : Operating temperature range is 0~40℃, All specifications apply for 25℃±5℃, Except as noted

Order Information

Optional interface :

Options :

- ① GPIB Card
- ② RS232 Card
- ③ USB Card
- ④ LAN Card

Hook ring



x4



34215A 600V,480A,15KW



34220A 600V,640A,20KW



34225A 600V,800A,25KW



34230A 600V,960A,30KW



34235A 600V,1120A,35KW

Specifications

MODEL	34240A		34305A		34310A		34315A		34320A	
Power	40KW		5KW		10KW		15KW		20KW	
Current	0 ~ 128A	0 ~ 1280A	0 ~ 5A	0 ~ 50A	0 ~ 10A	0 ~ 100A	0 ~ 15A	0 ~ 150A	0 ~ 20A	0 ~ 200A
Voltage	0 ~ 600V				0 ~ 1000V					
Min. Operating Voltage	20V @ 1280A		30V @ 50A		30V @ 100A		30V @ 150A		30V @ 200A	
Protections										
Over Power Protection (OPP)			105%				105%			
Over Current Protection (OCP)			104%				104%			
Over Voltage Protection (OVP)			105%				104%			
Over Temp Protection (OTP)			Yes				Yes			
Constant Current Mode										
Range ^{*1}	128A	1280A	5A	50A	10A	100A	15A	150A	20A	200A
Resolution	2.048mA	20.48mA	0.08mA	0.8mA	0.16mA	1.6mA	0.24mA	2.4mA	0.32mA	3.2mA
Accuracy	± (0.1% of Setting + 0.2% of Range)									
Constant Resistance Mode										
Range	28125Ω~0.46875Ω	0.46875Ω~0.0078Ω	24000Ω~20Ω	20Ω~0.2004Ω	12000Ω~10Ω	10Ω~0.1002Ω	8012Ω ~ 6.666Ω	6.6659Ω~0.06679Ω	6000Ω~5Ω	5Ω~0.0501Ω
Resolution	35.5μs	0.007875mΩ	0.833μs	0.334mΩ	1.666μs	0.167mΩ	2.4μs	0.11132mΩ	3.33μs	0.0835mΩ
Accuracy	±0.2% of (Setting + Range)									
Constant Voltage Mode										
Range			600V				10 ~ 1000V			
Resolution			10mV				16mV			
Accuracy	± 0.05% of (Setting + Range)									
Constant Power Mode										
Range	4000W	40000W	500W	5000W	1000W	10000W	1500W	15000W	2000W	20000W
Resolution	64mW	640mW	8mV	80mW	16mV	160mW	24mW	240mW	32mW	320mW
Accuracy ^{*2}	± 0.1% of (Setting + Range)									
Constant Voltage + Current Limit Mode										
Range	600V	1280A	1000V	50A	1000V	100A	1000V	150A	1000V	200A
Resolution	10mV	20.48mA	16mV	0.8mA	16mV	1.6mA	16mV	2.4mA	16mV	3.2mA
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
Constant Voltage + Power Limit Mode										
Range	600V	40000W	1000V	5000W	1000V	10000W	1000V	15000W	1000V	20000W
Resolution	10mV	640mW	16mV	80mW	16mV	160mW	16mV	240mW	16mV	320mW
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
MPPT Mode										
Algorithm	P&O									
Load mode	CV									
P&O interval	1000ms~60000ms ; resolution 1000ms									
Dynamic Mode										
Timing										
Thigh & Tlow	0.050~9.999 / 99.99 / 999.9 / 9999ms									
Resolution	0.001 / 0.01 / 0.1 / 1ms									
Accuracy	1μs / 10μs / 100μs / 1ms + 50ppm									
Slew Rate	0.1024A~6.4A/μs	1.024A~64A/μs	0.004A~0.25A/μs	0.04A~2.5A/μs	0.008A~0.5A/μs	0.08A~5A/μs	0.012A~0.75A/μs	0.12A~7.5A/μs	0.016A~1A/μs	0.16A~10A/μs
Resolution	25.6mA/μs	256mA/μs	0.001A/μs	0.01A/μs	0.002A/μs	0.02A/μs	0.003A/μs	0.03A/μs	0.004A/μs	0.04A/μs
Min. Rise Time	20μs (typical)									
Accuracy	± (5% of Setting) ±10μs									
Current										
Range	0~128A	128~1280A	0~5A	5~50A	0~10A	10~100A	0~15A	15~150A	0~20A	20~200A
Resolution	2.048mA	20.48mA	0.08mA	0.8mA	0.16mA	1.6mA	0.24mA	2.4mA	0.32mA	3.2mA
Measurement										
Voltage Read Back										
Range (5 Digital)	0~60V	60~600V	0~100V	100~1000V	0~100V	100~1000V	0~100V	100~1000V	0~100V	100~1000V
Resolution	1mV	10mV	1.6mV	16mV	1.6mV	16mV	1.6mV	16mV	1.6mV	16mV
Accuracy	±0.025% of (Reading + Range)									
Current Read Back										
Range (5 Digital)	0~128A	128~1280A	0~5A	5~50A	0~10A	10~100A	0~15A	15~150A	0~20A	20~200A
Resolution	2.048mA	20.48mA	0.08mA	0.8mA	0.16mA	1.6mA	0.24mA	2.4mA	0.32mA	3.2mA
Accuracy	± 0.05% of (Reading + Range)									
Power Read Back										
Range (5 Digital)	4000W	40000W	500W	5000W	1000W	10000W	1500W	15000W	2000W	20000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy ^{*3}	± 0.06% of (Reading + Range)									
General										
Short Circuit										
Current	1280A		50A		100A		150A		200A	
Load ON Voltage	0.4 ~ 100V				10.4 ~ 200V					
Load OFF Voltage	0 ~ 100V				0 ~ 200V					
Power Consumption	3700Wmax		600 Wmax		1000Wmax		1450Wmax		1900Wmax	
Operating Temperature ^{*4}	0~40°C									
Dimension (HxWxD)	1509x647x766mm		573x647x766mm		573x647x766mm		728x647x766mm		885x647x766mm	
HxWxD (Not included wheels)	1405x647x766mm		469x647x766mm		469x647x766mm		625x647x766mm		781x647x766mm	
Weight	430 kg		100 kg		130 kg		170 kg		220 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 : If the operating voltage is higher than 600V, the accuracy specification is 0.5% F.S.

Note *3 : Power F.S. = Vrange F.S. x Irange F.S.

Note *4 : Operating temperature range is 0~40°C, All specifications apply for 25°C±5°C, Except as noted

Order Information

Optional interface : Options :
Hook ring

- ① GPIB Card
- ② RS232 Card
- ③ USB Card
- ④ LAN Card



x4



34240A 600V, 1280A, 40KW



34305A 1000V, 50A, 5KW



34310A 1000V, 100A, 10KW



34315A 1000V, 150A, 15KW



34320A 1000V, 200A, 20KW

Specifications

MODEL	34325A		34330A		34335A		34340A	
Power	25KW		30KW		35KW		40KW	
Current	0 ~ 25A	0 ~ 250A	0 ~ 30A	0 ~ 300A	0 ~ 35A	0 ~ 350A	0 ~ 40A	0 ~ 400A
Voltage	0 ~ 1000V							
Min. Operating Voltage	10V @ 250A		10V @ 300A		10V @ 350A		10V @ 400A	
Protections								
Over Power Protection (OPP)	105%							
Over Current Protection (OCP)	104%							
Over Voltage Protection (OVP)	104%							
Over Temp Protection (OTP)	Yes							
Constant Current Mode								
Range*1	25A	250A	30A	300A	35A	350A	40A	400A
Resolution	0.4mA	4mA	0.48mA	4.8mA	0.56mA	5.6mA	0.64mA	6.4mA
Accuracy	± (0.1% of Setting + 0.2% of Range)							
Constant Resistance Mode								
Range	4800Ω~4Ω	4Ω~0.04008Ω	3999.6Ω~3.333Ω	3.333Ω~0.033396Ω	3428.4Ω~2.857Ω	2.857Ω~0.0286266Ω	3000Ω~2.5Ω	2.5Ω~0.02505Ω
Resolution	4.166μS	0.0668mΩ	5μS	0.05566mΩ	5.833μS	0.047711mΩ	6.66μS	0.04175mΩ
Accuracy	±0.2% of (Setting + Range)							
Constant Voltage Mode								
Range	10 ~ 1000V							
Resolution	16mV							
Accuracy	± 0.05% of (Setting + Range)							
Constant Power Mode								
Range	2500W	25000W	3000W	30000W	3500W	35000W	4000W	40000W
Resolution	40mV	400mW	48mV	480mW	56mW	560mW	64mW	640mW
Accuracy*2	± 0.1% of (Setting + Range)							
Constant Voltage + Current Limit Mode								
Range	1000V	250A	1000V	300A	1000V	350A	1000V	400A
Resolution	16mV	4mA	16mV	4.8mA	16mV	5.6mA	16mV	6.4mA
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
Constant Voltage + Power Limit Mode								
Range	1000V	25000W	1000V	30000W	1000V	35000W	1000V	40000W
Resolution	16mV	400mW	16mV	480mW	16mV	560mW	16mV	640mW
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
MPPT Mode								
Algorithm	P&O							
Load mode	CV							
P&O interval	1000ms~60000ms ; resolution 1000ms							
Dynamic Mode								
Timing								
Thigh & Tlow	0.050~9.999 / 99.99 / 999.9 / 9999ms							
Resolution	0.001 / 0.01 / 0.1 / 1ms							
Accuracy	1μs / 10μs / 100μs / 1ms + 50ppm							
Slew Rate	0.02A~1.25A/μs	0.2A~12.5A/μs	0.024A~1.5A/μs	0.24A~15A/μs	0.028A~1.75A/μs	0.28A~17.5A/μs	0.032A~2A/μs	0.32A~20A/μs
Resolution	0.005A/μs	0.05A/μs	0.006A/μs	0.06A/μs	0.007A/μs	0.07A/μs	0.008A/μs	0.08A/μs
Min. Rise Time	20μs (typical)							
Accuracy	± (5% of Setting) ±10μs							
Current								
Range	0~25A	25~250A	0~30A	30~300A	0~35A	35~350A	0~40A	40~400A
Resolution	0.4mA	4mA	0.48mA	4.8mA	0.56mA	5.6mA	0.64mA	6.4mA
Measurement								
Voltage Read Back								
Range (5 Digital)	0~100V	100~1000V	0~100V	100~1000V	0~100V	100~1000V	0~100V	100~1000V
Resolution	1.6mV	16mV	1.6mV	16mV	1.6mV	16mV	1.6mV	16mV
Accuracy	±0.025% of (Reading + Range)							
Current Read Back								
Range (5 Digital)	0~25A	25~250A	0~30A	30~300A	0~35A	35~350A	0~40A	40~400A
Resolution	0.4mA	4mA	0.48mA	4.8mA	0.56mA	5.6mA	0.64mA	6.4mA
Accuracy	± 0.05% of (Reading + Range)							
Power Read Back								
Range (5 Digital)	2500W	25000W	3000W	30000W	3500W	35000W	4000W	40000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy*3	± 0.06% of (Reading + Range)							
General								
Short Circuit								
Current	250A		300A		350A		400A	
Load ON Voltage	10.4 ~ 200V							
Load OFF Voltage	0 ~ 200V							
Power Consumption	2350 Wmax		2800Wmax		3250Wmax		3700Wmax	
Operating Temperature*4	0~40℃							
Dimension (HxWxD)	1041x647x766mm		1197x647x766mm		1353x647x766mm		1509x647x766mm	
HxWxD (Not included wheels)	937x647x766mm		1093x647x766mm		1249x647x766mm		1405x647x766mm	
Weight	280 kg		340 kg		390 kg		430 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 : If the operating voltage is higher than 600V, the accuracy specification is 0.5% F.S.

Note *3 : Power F.S. = Vrange F.S. x Irange F.S.

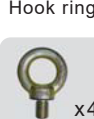
Note *4 : Operating temperature range is 0~40℃, All specifications apply for 25℃±5℃, Except as noted

Order Information

Optional interface :

Options :

- ① GPIB Card
- ② RS232 Card
- ③ USB Card
- ④ LAN Card



x4



34325A 1000V , 250A , 25KW



34330A 1000V , 300A , 30KW



34335A 1000V , 350A , 35KW



34340A 1000V , 400A , 40KW