

34000A Series Compact High Power DC Electronic Load



60V
600V
1000V

5kW~
40kW

24
Models
Type



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.
- Short, OCCP and OCPD function test for BMS protection board is provided (option).
- 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	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 ³	0.1V@100A	0.7V@1000A ³	0.1V@100A	0.7V@1000A ³	0.1V@100A	0.7V@1000A ³	0.1V@100A	0.7V@1000A ³
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	0~100A	0~1000A	0~100A	0~1000A	0~100A	0~1000A	0~100A	0~1000A	0~100A	0~1000A
Resolution	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA
Accuracy	± (0.1% of Setting + 0.2% of 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	± 0.5% of (Setting + Range)									
Constant Voltage Mode + Constant Current Mode										
Range	60V	1000A	60V	1000A	60V	1000A	60V	1000A	60V	1000A
Resolution	1mV	16mA	1mV	16mA	1mV	16mA	1mV	16mA	1mV	16mA
Accuracy	± 1.0% of (Setting + Range)									
Constant Voltage Mode + Constant Power Mode										
Range	60V	5000W	60V	10000W	60V	15000W	60V	20000W	60V	25000W
Resolution	1mV	80mW	1mV	160mW	1mV	240mW	1mV	320mW	1mV	400mW
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	0.150~9.999 / 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/μs	240mA~15A/μs	24mA~1.5A/μs	240mA~15A/μs
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)									
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	± 0.1% of (Reading + Range)									
Power Read Back										
Range (5 Digital)	1000W	5000W	1000W	10000W	10000W	15000W	10000W	20000W	10000W	25000W
Resolution	0.01W	0.1W	0.01W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy	± 0.125% 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 ²	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 : The range is automatically or forcing to range II only in CC Mode

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

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 : Options :

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



x4

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									
Min. Operating Voltage	0.1V@100A	0.7V@1000A ³	0.1V@100A	0.7V@1000A ³	0.1V@100A	0.7V@1000A ³	10V@160A		10V@320A	
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	0~100A	0~1000A	0~100A	0~1000A	0~100A	0~1000A	0 ~ 16A	0 ~ 160A	32A	320A
Resolution	1.6mA	16mA	1.6mA	16mA	1.6mA	16mA	0.256mA	2.56mA	0.512mA	5.12mA
Accuracy	± (0.1% of Setting + 0.2% of 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	± 0.5% of (Setting + Range)									
Constant Voltage Mode + Constant Current 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	± 1.0% of (Setting + Range)									
Constant Voltage Mode + Constant Power Mode										
Range	60V	30000W	60V	35000W	60V	40000W	600V	5000W	600V	10000W
Resolution	1mV	480mW	1mV	560mW	1mV	640mW	10mV	80mW	10mV	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	0.150~9.999 / 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	12.8mA~800mA/μS	128mA~8A/μS	25.6mA~1.6A/μS	256mA~16A/μS
Resolution	6mA/μS	60mA/μS	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)			
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	± 0.1% of (Reading + Range)									
Power Read Back										
Range (5 Digital)	10000W	30000W	10000W	35000W	10000W	40000W	1000W	5000W	1000W	10000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.01W	0.1W	0.01W	1W
Accuracy	± 0.125% 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 ²	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 : The range is automatically or forcing to range II only in CC Mode

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

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 : Options :

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



x4

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 ~ 480A	0 ~ 64A	0 ~ 640A	0 ~ 80A	0 ~ 800A	0 ~ 96A	0 ~ 960A	0 ~ 112A	0 ~ 1120A
Voltage	0 ~ 600V									
Min. Operating Voltage	10V @ 480A		10V @ 640A		10V @ 800A		10V @ 960A		10V @ 1120A	
Protections										
Over Power Protection (OPP)	105%									
Over Current Protection (OCP)	105%									
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	± (0.1% of Setting + 0.2% of Range)									
Constant Resistance Mode										
Range	1500Ω~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	± 0.5% of (Setting + Range)									
Constant Voltage Mode + Constant Current 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	± 1.0% of (Setting + Range)									
Constant Voltage Mode + Constant Power Mode										
Range	600V	15000W	600V	20000W	600V	25000W	600V	30000W	600V	35000W
Resolution	10mV	240mW	10mV	320mW	10mV	400mW	10mV	480mW	10mV	560mW
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	0.050~9.999 / 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)									
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	±0.1% of (Reading + Range)									
Power Read Back										
Range (5 Digital)	10000W	15000W	10000W	20000W	10000W	25000W	10000W	30000W	10000W	35000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy	±0.125% 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 ²	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 : Operating temperature range is 0~40°C , all specifications apply for 25°C±5°C

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 : Options :

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



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	10V @ 1280A		10V @ 50A		10V @ 100A		10V @ 150A		10V @ 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	5625Ω ~ 0.46875Ω	0.46875Ω ~ 0.00787Ω	24000Ω ~ 20Ω	20Ω ~ 0.2004Ω	12000Ω ~ 10Ω	10Ω ~ 0.1002Ω	8332.5Ω ~ 6.666Ω	6.6659Ω ~ 0.066792Ω	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	± 0.5% of (Setting + Range)									
Constant Voltage Mode + Constant Current 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	± 1.0% of (Setting + Range)									
Constant Voltage Mode + Constant Power Mode										
Range	600V	40000W	1000V	5000W	1000V	10000W	1000V	15000W	1000V	20000W
Resolution	10mV	640mW	16mV	80mW	16mV	160mW	16mV	240mW	16mV	320mW
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	0.050~9.999 / 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)									
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	±0.1% of (Reading + Range)									
Power Read Back										
Range (5 Digital)	10000W	40000W	1000W	5000W	1000W	10000W	10000W	15000W	10000W	20000W
Resolution	0.1W	1W	0.01W	0.1W	0.01W	1W	0.1W	1W	0.1W	1W
Accuracy	±0.125% 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 ²	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 : Operating temperature range is 0~40°C , all specifications apply for 25°C±5°C

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 : Options :

- 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	56mV	560mW	64mV	640mW
Accuracy	± 0.5% of (Setting + Range)							
Constant Voltage Mode + Constant Current Mode								
Range	1000V	250A	1000V	300A	1000V	350A	1000V	400A
Resolution	16mV	4mA	16mV	4.8mA	16mV	5.6mA	16mV	6.4mA
Accuracy	± 1% of (Setting + Range)							
Constant Voltage Mode + Constant Power Mode								
Range	1000V	25000W	1000V	30000W	1000V	35000W	1000V	40000W
Resolution	16mV	400mW	16mV	480mW	16mV	560mW	16mV	640mW
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	0.050~9.999 / 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)							
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	±0.1% of (Reading + Range)							
Power Read Back								
Range (5 Digital)	10000W	25000W	10000W	30000W	10000W	35000W	10000W	40000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy	±0.125% 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 ²	0~40°C							
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 : Operating temperature range is 0~40°C , all specifications apply for 25°C±5°C

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 : Options :

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



34325A 1000V · 250A · 25KW 34330A 1000V · 300A · 30KW 34335A 1000V · 350A · 35KW 34340A 1000V · 400A · 40KW