

# 34000A Series

High Power DC Electronic Load



HIGH POWER DC ELECTRONIC LOAD

**PRODIGIT**  
INSTRUMENT PROFESSIONAL

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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.

## 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									
Voltage	0 ~ 60V		0 ~ 60V		0 ~ 60V		0 ~ 60V		0 ~ 60V									
Min. Operating Voltage	0.1V@100A		0.7V@1000A <sup>3</sup>		0.1V@100A		0.7V@1000A <sup>3</sup>		0.1V@100A									
<b>Protections</b>																		
Over Power Protection (OPP)	105%																	
Over Current Protection (OCP)	104%																	
Over Voltage Protection (OVP)	105%																	
Over Temp Protection (OTP)	Yes																	
<b>Constant Current Mode</b>																		
Range <sup>1</sup>	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	$\pm (0.1\% \text{ of Setting} + 0.2\% \text{ of Range})$																	
<b>Constant Resistance Mode</b>																		
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	$\pm 0.2\% \text{ of (Setting + Range)}$																	
<b>Constant Voltage Mode</b>																		
Range	60V																	
Resolution	1mV																	
Accuracy	$\pm 0.05\% \text{ of (Setting + Range)}$																	
<b>Constant Power Mode</b>																		
Range	500W	5000W	1000W	10000W	1500W	15000W	2000W	20000W	2500W	25000W								
Resolution	8mW	80mW	16mW	160mW	24mW	240mW	32mW	320mW	40mW	400mW								
Accuracy	$\pm 0.5\% \text{ of (Setting + Range)}$																	
<b>Constant Voltage Mode + Constant Current Mode</b>																		
Range	60V	1000A	60V	1000A	60V	1000A	60V	1000A	60V	1000A								
Resolution	1mV	16mA	1mV	16mA	1mV	16mA	1mV	16mA	1mV	16mA								
Accuracy	$\pm 1.0\% \text{ of (Setting + Range)}$																	
<b>Constant Voltage Mode + Constant Power Mode</b>																		
Range	60V	5000W	60V	10000W	60V	15000W	60V	20000W	60V	25000W								
Resolution	1mV	80mW	1mV	160mW	1mV	240mW	1mV	320mW	1mV	400mW								
Accuracy	$\pm 1.0\% \text{ of (Setting + Range)}$																	
<b>MPPT Mode</b>																		
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																	
<b>Dynamic Mode</b>																		
<b>Timing</b>																		
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)																	
<b>Current</b>																		
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								
<b>Measurement</b>																		
<b>Voltage Read Back</b>																		
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	$\pm 0.025\% \text{ of (Reading + Range)}$																	
<b>Current Read Back</b>																		
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	$\pm 0.1\% \text{ of (Reading + Range)}$																	
<b>Power Read Back</b>																		
Range (5 Digital)	1000W	5000W	1000W	10000W	1000W	15000W	1000W	20000W	1000W	25000W								
Resolution	0.01W	0.1W	0.01W	1W	0.1W	1W	0.1W	1W	0.1W	1W								
Accuracy	$\pm 0.125\% \text{ of (Reading + Range)}$																	
<b>General</b>																		
<b>Short Circuit</b>																		
Current	1000A																	
<b>Load ON Voltage</b>	0.1~25V																	
<b>Load OFF Voltage</b>	0~25V																	
<b>Power Consumption</b>	600Wmax	1000Wmax		1450Wmax		1900Wmax		2350Wmax										
<b>Operating Temperature<sup>2</sup></b>	0~40°C																	
<b>Dimension (HxWxD)</b>	573x647x766mm	573x647x766mm		728x647x766mm		885x647x766mm		1041x647x766mm										
HxWxD (Not included wheels)	469x647x766mm	469x647x766mm		625x647x766mm		781x647x766mm		937x647x766mm										
<b>Weight</b>	100 Kg	130 kg		170 kg		220 kg		280 kg										
<b>Safety &amp; EMC</b>	CE																	

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



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		0~16A		0~160A											
Voltage	0 ~ 60V		0 ~ 60V		0 ~ 600V		0 ~ 600V		0 ~ 600V											
Min. Operating Voltage	0.1V@100A		0.7V@1000A <sup>3</sup>		0.1V@100A		0.7V@1000A <sup>3</sup>		10V@160A											
<b>Protections</b>	Over Power Protection (OPP)					105%														
	Over Current Protection (OCP)					104%														
	Over Voltage Protection (OVP)					105%														
	Over Temp Protection (OTP)					Yes														
<b>Constant Current Mode</b>																				
Range <sup>1</sup>	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	$\pm (0.1\% \text{ of Setting} + 0.2\% \text{ of Range})$																			
<b>Constant Resistance Mode</b>																				
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	$\pm 0.2\% \text{ of (Setting + Range)}$																			
<b>Constant Voltage Mode</b>																				
Range	60V					600V														
Resolution	1mV					10mV														
Accuracy	$\pm 0.05\% \text{ of (Setting + Range)}$																			
<b>Constant Power Mode</b>																				
Range	3000W	30000W	3500W	35000W	4000W	40000W	500W	5000W	1000W	10000W										
Resolution	48mW	480mW	56mW	560mW	64mW	640mW	8mW	80mW	16mW	160mW										
Accuracy	$\pm 0.5\% \text{ of (Setting + Range)}$																			
<b>Constant Voltage Mode + Constant Current Mode</b>																				
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	$\pm 1.0\% \text{ of (Setting + Range)}$																			
<b>Constant Voltage Mode + Constant Power Mode</b>																				
Range	60V	30000W	60V	35000W	60V	40000W	600V	5000W	600V	10000W										
Resolution	1mV	480mW	1mV	560mW	1mV	640mW	10mV	80mW	10mV	160mW										
Accuracy	$\pm 1.0\% \text{ of (Setting + Range)}$																			
<b>MPPT Mode</b>																				
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																			
<b>Dynamic Mode</b>																				
<b>Timing</b>																				
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/uS	240mA~15A/uS	24mA~1.5A/uS	240mA~15A/uS	12.8mA~800mA/uS	128mA~8A/uS	25.6mA~1.6A/uS	256mA~16A/uS										
Resolution	6mA/uS	60mA/uS	6mA/uS	60mA/uS	6mA/uS	60mA/uS	3.2mA/uS	32mA/uS	6.4mA/uS	64mA/uS										
Min. Rise Time	66.7μs(typical)																			
<b>Current</b>																				
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										
<b>Measurement</b>																				
<b>Voltage Read Back</b>																				
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	$\pm 0.025\% \text{ of (Reading + Range)}$																			
<b>Current Read Back</b>																				
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	$\pm 0.1\% \text{ of (Reading + Range)}$																			
<b>Power Read Back</b>																				
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	$\pm 0.125\% \text{ of (Reading + Range)}$																			
<b>General</b>																				
<b>Short Circuit</b>																				
Current	1000A																			
<b>Load ON Voltage</b>	0.1~25V																			
<b>Load OFF Voltage</b>	0~25V																			
<b>Power Consumption</b>	2800Wmax																			
<b>Operating Temperature<sup>2</sup></b>	3250Wmax																			
<b>Dimension (HxWxD)</b>	1197x647x766mm	1353x647x766mm	1509x647x766mm	573x647x766mm	573x647x766mm	573x647x766mm	600Wmax	1000Wmax	1000Wmax	1000Wmax										
HxWxD (Not included wheels)	1093x647x766mm	1249x647x766mm	1405x647x766mm	469x647x766mm	469x647x766mm	469x647x766mm	0~40°C	0~100V	0~100V	0~100V										
<b>Weight</b>	340 Kg	390 kg	430 kg	100 kg	100 kg	100 kg	CE	CE	CE	CE										
<b>Safety &amp; EMC</b>																				

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



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											
<b>Protections</b>																				
Over Power Protection (OPP)	105%						105%		105%											
Over Current Protection (OCP)	105%						104%													
Over Voltage Protection (OVP)	105%						105%		Yes											
<b>Constant Current Mode</b>																				
Range <sup>1</sup>	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	$\pm (0.1\% \text{ of Setting} + 0.2\% \text{ of Range})$																			
<b>Constant Resistance Mode</b>																				
Range	15000Ω~1.25Ω	1.25Ω~0.021Ω	112500Ω~0.9375Ω	0.9375Ω~0.01575Ω	112500Ω~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	$\pm 0.2\% \text{ of (Setting} + \text{Range)}$																			
<b>Constant Voltage Mode</b>																				
Range			600V																	
Resolution			10mV																	
Accuracy	$\pm 0.05\% \text{ of (Setting} + \text{Range)}$																			
<b>Constant Power Mode</b>																				
Range	1500W	15000W	2000W	20000W	2500W	25000W	3000W	30000W	3500W	35000W										
Resolution	24mW	240mW	32mW	320mW	40mW	400mW	48mW	480mW	56mW	560mW										
Accuracy	$\pm 0.5\% \text{ of (Setting} + \text{Range)}$																			
<b>Constant Voltage Mode + Constant Current Mode</b>																				
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	$\pm 1.0\% \text{ of (Setting} + \text{Range)}$																			
<b>Constant Voltage Mode + Constant Power Mode</b>																				
Range	600V	15000W	600V	20000W	600V	25000W	600V	30000W	600V	35000W										
Resolution	10mV	240mW	10mV	320mW	10mV	400mW	10mV	480mW	10mV	560mW										
Accuracy	$\pm 1.0\% \text{ of (Setting} + \text{Range)}$																			
<b>MPPT Mode</b>																				
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																			
<b>Dynamic Mode</b>																				
<b>Timing</b>																				
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)																			
<b>Current</b>																				
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										
<b>Measurement</b>																				
<b>Voltage Read Back</b>																				
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	$\pm 0.025\% \text{ of (Reading} + \text{Range)}$																			
<b>Current Read Back</b>																				
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	$\pm 0.1\% \text{ of (Reading} + \text{Range)}$																			
<b>Power Read Back</b>																				
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	$\pm 0.125\% \text{ of (Reading} + \text{Range)}$																			
<b>General</b>																				
<b>Short Circuit</b>																				
Current	480A		640A		800A		960A		1120A											
<b>Load ON Voltage</b>																				
Load OFF Voltage	0.4 ~ 100V																			
<b>Power Consumption</b>																				
Operating Temperature <sup>2</sup>	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															
<b>Safety &amp; EMC</b>																				
	CE																			

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



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											
<b>Protections</b>																				
Over Power Protection (OPP)					105%				105%											
Over Current Protection (OCP)					104%				104%											
Over Voltage Protection (OVP)					105%				104%											
Over Temp Protection (OTP)					Yes				Yes											
<b>Constant Current Mode</b>																				
Range <sup>1</sup>	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)																			
<b>Constant Resistance Mode</b>																				
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)																			
<b>Constant Voltage Mode</b>																				
Range	600V					10 ~ 1000V 16mV														
Resolution	10mV																			
Accuracy	± 0.05% of (Setting + Range)																			
<b>Constant Power Mode</b>																				
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)																			
<b>Constant Voltage Mode + Constant Current Mode</b>																				
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)																			
<b>Constant Voltage Mode + Constant Power Mode</b>																				
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)																			
<b>MPPT Mode</b>																				
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																			
<b>Dynamic Mode</b>																				
<b>Timing</b>																				
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)																			
<b>Current</b>																				
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										
<b>Measurement</b>																				
<b>Voltage Read Back</b>																				
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)																			
<b>Current Read Back</b>																				
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)																			
<b>Power Read Back</b>																				
Range (5 Digital)	10000W	40000W	1000W	5000W	1000W	10000W	1000W	15000W	1000W	20000W										
Resolution	0.1W	1W	0.01W	0.1W	0.01W	1W	0.1W	1W	0.1W	1W										
Accuracy	±0.125% of (Reading + Range)																			
<b>General</b>																				
<b>Short Circuit</b>																				
Current	1280A		50A		100A		150A		200A											
<b>Load ON Voltage</b>																				
Load OFF Voltage	0.4 ~ 100V				10.4 ~ 200V															
<b>Load OFF Voltage</b>																				
Power Consumption	3700Wmax		600 Wmax		1000Wmax		1450Wmax		1900Wmax											
Operating Temperature <sup>2</sup>	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											
<b>Safety &amp; EMC</b>																				
	CE																			

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 :

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									
<b>Protections</b>																
Over Power Protection (OPP)			105%													
Over Current Protection (OCP)			104%													
Over Voltage Protection (OVP)			104%													
Over Temp Protection (OTP)			Yes													
<b>Constant Current Mode</b>																
Range <sup>1</sup>	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)													
<b>Constant Resistance Mode</b>																
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)													
<b>Constant Voltage Mode</b>																
Range			10 ~ 1000V													
Resolution			16mV													
Accuracy			± 0.05% of (Setting + Range)													
<b>Constant Power Mode</b>																
Range	2500W	25000W	3000W	30000W	3500W	35000W	4000W	40000W								
Resolution	40mV	400mW	48mV	480mW	56mW	560mW	64mW	640mW								
Accuracy			± 0.5% of (Setting + Range)													
<b>Constant Voltage Mode + Constant Current Mode</b>																
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)													
<b>Constant Voltage Mode + Constant Power Mode</b>																
Range	1000V	25000W	1000V	30000W	1000V	35000W	1000V	40000W								
Resolution	16mV	400mW	16mV	480mW	16mV	560mW	16mV	640mW								
Accuracy			± 1.0% of (Setting + Range)													
<b>MPPT Mode</b>																
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													
<b>Dynamic Mode</b>																
<b>Timing</b>																
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)													
<b>Current</b>																
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								
<b>Measurement</b>																
<b>Voltage Read Back</b>																
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)													
<b>Current Read Back</b>																
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)													
<b>Power Read Back</b>																
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)													
<b>General</b>																
<b>Short Circuit</b>																
Current			250A		300A		350A									
<b>Load ON Voltage</b>																
Load OFF Voltage			10.4 ~ 200V													
Power Consumption			0 ~ 200V													
Operating Temperature <sup>2</sup>			2350 Wmax		2800Wmax		3250Wmax									
Dimension (HxWxD)	1041x647x766mm	1197x647x766mm	1197x647x766mm	1197x647x766mm	1353x647x766mm	1353x647x766mm	1509x647x766mm	1509x647x766mm								
HxWxD (Not included wheels)	937x647x766mm	1093x647x766mm	1093x647x766mm	1093x647x766mm	1249x647x766mm	1249x647x766mm	1405x647x766mm	1405x647x766mm								
Weight			280 kg		340 kg		390 kg									
<b>Safety &amp; EMC</b>																
			CE													

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 :

① GPIB Card

② RS232 Card

③ USB Card

④ LAN Card

Options :

Hook ring

x4



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

