34000A Series

High Power DC Electronic Load

FEATURES

- Maximum power up to 320 KW
- Maximum up to 8 units master / slave parallel control
- 5 digit V/A/W Meter.
- OCP, OPP test function automatically.
- Power ON status can be set.
- SHORT time setting.
- Voltage meter display the polarity positive (”＋”) or negative (”－”)is selectable.
- 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.

GW INSTEK

Simply Reliable

34000A Series
Compact High Power DC Electronic Load

60V
600V
1000V

30kW
35kW
40kW

9
Models
Type

Features

- Maximum power up to 320 KW
- 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 600 V,1000 V 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.
- 0.7 V @ 1000 A is on Static condition, and the starting voltage must be greater than 5 V, if on Dynamic condition that is 5 V @ 1000 A.
- 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 1000 V provide an idea testing solution for Power Factor Correction test.
- Master / Slave control units maximum are up to 1 MASTER, 7 SLAVES.

Applications

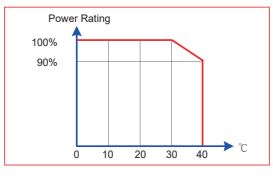
- Voltage / Current source
- SMPS transient response
- CV / Current limit testing and battery emulation
- Battery charger
- Battery discharge
- R&D Quality Control
- ATE system
- Production testing

SPECIFICATIONS

Model	34105A		34125A		34130A		34135A		34140A	
Power	5 KW	5 KW	25 KW	25 KW	30 KW	30 KW	35 KW	35 KW	40 KW	40 KW
Current	0 A to 100 A	0 A to 1000 A	0 A to 100 A	0 A to 1000 A	0 A to 100 A	0 A to 1000 A	0 A to 100 A	0 A to 1000 A	0 A to 100 A	0 A to 1000 A
Voltage	0 V to 60 V									
Min. Operating Voltage	0.1 V @ 100 A	0.7 V @ 1000 A *1	0.1 V @ 100 A	0.7 V @ 1000 A *1	0.1 V @ 100 A	0.7 V @ 1000 A *1	0.1 V @ 100 A	0.7 V @ 1000 A *1	0.1 V @ 100 A	0.7 V @ 1000 A *1
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	100 A	1000 A	100 A	1000 A	100 A	1000 A	100 A	1000 A	100 A	1000 A
Resolution	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA
Accuracy	± 0.05 % of (Setting + Range)									
Constant Resistance Mode										
Range	3600 Ω to 0.06 Ω	0.06 Ω to 0.001 Ω	3600 Ω to 0.06 Ω	0.06 Ω to 0.001 Ω	3600 Ω to 0.06 Ω	0.06 Ω to 0.001 Ω	3600 Ω to 0.06 Ω	0.06 Ω to 0.001 Ω	3600 Ω to 0.06 Ω	0.06 Ω to 0.001 Ω
Resolution	277 uS *5	0.001 mΩ	277 uS *5	0.001 mΩ	277 uS *5	0.001 mΩ	277 uS *5	0.001 mΩ	277 uS *5	0.001 mΩ
Accuracy	± 0.2 % of (Setting + Range)									
Constant Voltage Mode										
Range	60 V									
Resolution	1 mV									
Accuracy	± 0.05 % of (Setting + Range)									
Constant Power Mode										
Range	500 W	5000 W	2500 W	25000 W	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	8 mW	80 mW	40 mW	400 mW	48 mW	480 mW	56 mW	560 mW	64 mW	640 mW
Accuracy	± 0.1 % of (Setting + Range)									
Constant Voltage + Current Limit Mode										
Range	60 V	1000 A	60 V	1000 A	60 V	1000 A	60 V	1000 A	60 V	1000 A
Resolution	1 mV	16 mA	1 mV	16 mA	1 mV	16 mA	1 mV	16 mA	1 mV	16 mA
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	60 V	5000 W	60 V	25000 W	60 V	30000 W	60 V	35000 W	60 V	40000 W
Resolution	1 mV	80 mW	1 mV	400 mW	1 mV	480 mW	1 mV	560 mW	1 mV	640 mW
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	1000 ms to 60000 ms ; resolution 1000 ms									
Dynamic Mode										
Timing										
Thigh & Tlow	0.150 ms to 9.999 ms/ 99.99 ms / 999.9 ms / 9999 mS									
Resolution	0.001 ms/ 0.01 ms/ 0.1 ms / 1 mS									
Accuracy	1 uS/10 uS/100 uS/1 mS + 50 ppm									
Slew rate	24 mA/µs to 1.5 A/µs	240 mA/µs to 15 A/µs	24 mA/µs to 1.5 A/µs	240 mA/µs to 15 A/µs	24 mA/µs to 1.5 A/µs	240 mA/µs to 15 A/µs	24 mA/µs to 1.5 A/µs	240 mA/µs to 15 A/µs	24 mA/µs to 1.5 A/µs	240 mA/µs to 15 A/µs
Resolution	6 mA/µs	60 mA/µs	6 mA/µs	60 mA/µs	6 mA/µs	60 mA/µs	6 mA/µs	60 mA/µs	6 mA/µs	60 mA/µs
Min. Rise Time	66.7 µs(typical)									
Accuracy	± (5 % of Setting) ±10 µs									
Current										
Range	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A
Resolution	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA
Measurement										
Voltage Read Back										
Range (5 Digital)	0 V to 6 V	6 V to 60 V	0 V to 6 V	6 V to 60 V	0 V to 6 V	6 V to 60 V	0 V to 6 V	6 V to 60 V	0 V to 6 V	6 V to 60 V
Resolution	0.1 mV	1 mV	0.1 mV	1 mV	0.1 mV	1 mV	0.1 mV	1 mV	0.1 mV	1 mV
Accuracy	± 0.025 % of (Reading + Range)									
Current Read Back										
Range (5 Digital)	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A	0 A to 100 A	100 A to 1000 A
Resolution	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA	1.6 mA	16 mA
Accuracy	± 0.05 % of (Reading + Range)									
Power Read Back										
Range (5 Digital)	500 W	5000 W	2500 W	25000 W	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	0.1 W	1 W	0.1 W	1 W	0.1 W	1 W	0.1 W	1 W	0.1 W	1 W
Accuracy *3	± 0.06 % of (Reading + Range)									
General										
Short Circuit										
Current	1000 A									
Load ON Voltage	0.1 V to 25 V									
Load OFF Voltage	0 V to 25 V									
Power Consumption	600 Wmax		2350 Wmax		2800 Wmax		3250 Wmax		3700 Wmax	
Dimension(HxWxD)	573 mm x 647 mm x 766 mm		1047 mm x 647 mm x 766 mm		1197 mm x 647 mm x 766 mm		1353 mm x 647 mm x 766 mm		1509 mm x 647 mm x 766 mm	
Weight	100 Kg		280 Kg		340 Kg		390 Kg		430 Kg	
Operating Range										
Temperature *4	0 °C to 40 °C									
Humidity	20 % to 85 %rh									
Storage Range										
Temperature	-20 °C to +70 °C									
Humidity	<= 90 %rh									
Withstanding Voltage test										
AC input and FG	AC 1500 V, 1 minute.									
AC input and Load terminal	AC 3000 V, 1 minute.									
Load terminal and FG	AC 1500 V, 1 minute.									
Safety & EMC	CE									

Note *1 : 0.7 V @ 1000 A is on Static condition, and the starting voltage must be greater than 5 V, if on Dynamic condition that is 5 V @ 1000 A
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 °C to 40 °C, All specifications apply for 25 °C±5 °C, Except as noted
Note *5 : µS (microsiemens) is the unit of conductance(G), one siemens equal to 1/Ω
Input AC Power : 100 Vac to 230 Vac ± 10 %, 50/60 Hz
Cooling : Advanced Fan Cooled

All specifications are subject to change without notice.



SPECIFICATIONS

Model	34225A		34230A		34235A		34240A	
Power	25 KW	25 KW	30 KW	30 KW	35 KW	35 KW	40 KW	40 KW
Current	0 A to 80 A	0 A to 800 A	0 A to 96 A	0 A to 960 A	0 A to 112 A	0 A to 1120 A	0 A to 128 A	0 A to 1280 A
Voltage	0 V to 600 V							
Min. Operating Voltage	20V @ 800A		20V @ 960A		20V @ 1120A		20V @ 1280A	
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	80 A	800 A	96 A	960 A	112 A	1120 A	128 A	1280 A
Resolution	1.28 mA	12.8 mA	1.536 mA	15.36 mA	1.792 mA	17.92 mA	2.048 mA	20.48 mA
Accuracy	± 0.05 % of (Setting + Range)							
Constant Resistance Mode								
Range	11250 Ω to 0.75 Ω	0.75 Ω to 0.0126 Ω	12500 Ω to 0.625 Ω	0.625 Ω to 0.0105 Ω	32142 Ω to 0.5357 Ω	0.5357 Ω to 0.009 Ω	28125 Ω to 0.46875 Ω	0.46875 Ω to 0.0078 Ω
Resolution *4	22.2 µS	0.0126 mΩ	26.6 µS	0.0105 mΩ	31.1 µS	0.009 mΩ	35.5 µS	0.007875 mΩ
Accuracy	± 0.2 % of (Setting + Range)							
Constant Voltage Mode								
Range	600 V		600 V		600 V		600 V	
Resolution	10 mV		10 mV		10 mV		10 mV	
Accuracy	± 0.05 % of (Setting + Range)							
Constant Power Mode								
Range	2500 W	25000 W	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	40 mW	400 mW	48 mW	480 mW	56 mW	560 mW	64 mW	640 mW
Accuracy	± 0.1 % of (Setting + Range)							
Constant Voltage + Current Limit Mode								
Range	600 V	800 A	600 V	960 A	600 V	1120 A	600 V	1280 A
Resolution	10 mV	12.8 mA	10 mV	15.36 mA	10 mV	17.92 mA	10 mV	20.48 mA
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	600 V	25000W	600 V	30000W	600 V	35000W	600 V	40000W
Resolution	10 mV	400mW	10 mV	480mW	10 mV	560mW	10 mV	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	1000 ms to 60000 ms ; resolution 1000 ms							
Dynamic Mode								
Timing								
Thigh & Tlow	0.050 ms to 9.999 ms / 99.99 ms / 999.9 ms / 9999 mS							
Resolution	0.001 ms / 0.01 ms / 0.1 ms / 1 mS							
Accuracy	1 µS/10 µS/100 µS/1 mS + 50 ppm							
Slew rate	64 mA/µs to 4 A/µs	640 mA/µs to 40 A/µs	76.8 mA/µs to 4.8 A/µs	768 mA/µs to 48 A/µs	89.6 mA/µs to 5.6 A/µs	896 mA/µs to 56 A/µs	102.4 mA/µs to 6.4 A/µs	1024 mA/µs to 64 A/µs
Resolution	16 mA/µs	160 mA/µs	19.2 mA/µs	192 mA/µs	22.4 mA/µs	224 mA/µs	25.6 mA/µs	256 mA/µs
Min. Rise Time	20 µS(typical)							
Accuracy	± (5 % of Setting) ±10 µs							
Current								
Range	0 A to 80 A	80 A to 800 A	0 A to 96 A	96 A to 960 A	0 A to 112 A	112 A to 1120 A	0 A to 128 A	128 A to 1280 A
Resolution	1.28 mA	12.8 mA	1.536 mA	15.36 mA	1.792 mA	17.92 mA	2.048 mA	20.48 mA
Measurement								
Voltage Read Back								
Range (5 Digital)	0 V to 60 V	60 A to 600 V	0 V to 60 V	60 A to 600 V	0 V to 60 V	60 A to 600 V	0 V to 60 V	60 A to 600 V
Resolution	1 mV	10 mV	1 mV	10 mV	1 mV	10 mV	1 mV	10 mV
Accuracy	± 0.025 % of (Reading + Range)							
Current Read Back								
Range (5 Digital)	0 A to 80 A	80 A to 800 A	0 A to 96 A	96 A to 960 A	0 A to 112 A	112 A to 1120 A	0 A to 128 A	128 A to 1280 A
Resolution	1.28 mA	12.8 mA	1.536 mA	15.36 mA	1.792 mA	17.92 mA	2.048 mA	20.48 mA
Accuracy	± 0.05 % of (Reading + Range)							
Power Read Back								
Range (5 Digital)	2500 W	25000 W	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	0.1 W	1 W	0.1 W	1 W	0.1 W	1 W	0.1 W	1 W
Accuracy *2	± 0.06 % of (Reading + Range)							
General								
Short Circuit								
Current	800 A		960 A		1120 A		1280 A	
Load ON Voltage	0.4 V to 100 V							
Load OFF Voltage	0 V to 100 V							
Power Consumption	2350 Wmax		2800 Wmax		3250 Wmax		3700 Wmax	
Dimension(HxWxD)	1047 mm x 647 mm x 766 mm		1197 mm x 647 mm x 766 mm		1353 mm x 647 mm x 766 mm		1509 mm x 647 mm x 766 mm	
Weight	280 Kg		340 Kg		390 Kg		430 Kg	
Operating Range								
Temperature *3	0 °C to 40 °C							
Humidity	20 % to 85 %rh							
Storage Range								
Temperature	-20 °C to +70 °C							
Humidity	<= 90 %rh							
Withstanding Voltage test								
AC input and FG	AC 1500 V, 1 minute.							
AC input and Load terminal	AC 3000 V, 1 minute.							
Load terminal and FG	AC 1500 V, 1 minute.							
Safety & EMC	CE							

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 °C to 40 °C, All specifications apply for 25 °C±5 °C, Except as noted
Note *4 : µS (microsiemens) is the unit of conductance(G), one siemens equal to 1/Ω
Input AC Power : 100 Vac to 230 Vac ± 10 %, 50/60 Hz
Cooling : Advanced Fan Cooled
All specifications are subject to change without notice.

SPECIFICATIONS

Model	34325A		34330A		34335A		34340A	
Power	25 KW	25 KW	30 KW	30 KW	35 KW	35 KW	40 KW	40 KW
Current	0 A to 25 A	0 A to 250 A	0 A to 30 A	0 A to 300 A	0 A to 35 A	0 A to 350 A	0 A to 40 A	0 A to 400 A
Voltage	0 V to 1000 V							
Min. Operating Voltage	30 V @ 250 A		30 V @ 300 A		30 V @ 350 A		30 V @ 400 A	
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	25 A	250 A	30 A	300 A	35 A	350 A	40 A	400 A
Resolution	0.4 mA	4 mA	0.48 mA	4.8 mA	0.56 mA	5.6 mA	0.64 mA	6.4 mA
Accuracy	± 0.05 % of (Setting + Range)							
Constant Resistance Mode								
Range	4800 Ω to 4 Ω	4 Ω to 0.04008 Ω	4000 Ω to 3.333 Ω	3.333 Ω to 0.033396 Ω	3428.4 Ω to 2.857 Ω	2.857 Ω to 0.02862 Ω	3000 Ω to 2.5 Ω	2.5 Ω to 0.02505 Ω
Resolution *4	4.166 µs	0.0668 mΩ	5 µs	0.05566 mΩ	5.83 µs	0.047711 mΩ	6.66 µs	0.04175 mΩ
Accuracy	± 0.2 % of (Setting + Range)							
Constant Voltage Mode								
Range	10 V to 1000 V							
Resolution	16 mV							
Accuracy	± 0.05 % of (Setting + Range)							
Constant Power Mode								
Range	2500 W	25000 W	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	40 mW	400 mW	48 mW	480 mW	56 mW	560 mW	64 mW	640 mW
Accuracy	± 0.1 % of (Setting + Range)							
Constant Voltage + Current Limit Mode								
Range	1000 V	250 A	1000 V	300 A	1000 V	350 A	1000 V	400 A
Resolution	16 mV	4 mA	16 mV	4.8 mA	16 mV	5.6 mA	16 mV	6.4 mA
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	1000 V	25000 W	1000 V	30000 W	1000 V	35000 W	1000 V	40000 W
Resolution	16 mV	400 mW	16 mV	480 mW	16 mV	560 mW	16 mV	640 mW
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	1000 ms to 60000 ms ; resolution 1000 ms							
Dynamic Mode								
Timing								
Thigh & Tlow	0.050 ms to 9.999 ms/ 99.99 ms / 999.9 ms / 9999 ms							
Resolution	0.001 ms/ 0.01 ms/ 0.1 ms/ 1 ms							
Accuracy	1 µs/10 µs/100 µs/1 ms + 50 ppm							
Slew rate	0.02 A/µs to 1.25 A/µs	0.2 A/µs to 12.5 A/µs	0.024 A/µs to 1.5 A/µs	0.24 A/µs to 15 A/µs	0.028 A/µs to 1.7 5A/µs	0.28 A/µs to 17.5 A/µs	0.032 A/µs to 2 A/µs	0.32 A/µs to 20 A/µs
Resolution	0.005 A/µs	0.05 A/µs	0.006 A/µs	0.06 A/µs	0.007 A/µs	0.07 A/µs	0.008 A/µs	0.08 A/µs
Min. Rise Time	20 µs(typical)							
Accuracy	± (5 % of Setting) ±10 µs							
Current								
Range	0 A to 25 A	25 A to 250 A	0 A to 30 A	30 A to 300 A	0 A to 35 A	35 A to 350 A	0 A to 40 A	40 A to 400 A
Resolution	0.4 mA	4 mA	0.48 mA	4.8 mA	0.56 mA	5.6 mA	0.64 mA	6.4 mA
Measurement								
Voltage Read Back								
Range (5 Digital)	0 V to 100 V	100 V to 1000 V	0 V to 100 V	100 V to 1000 V	0 V to 100 V	100 V to 1000 V	0 V to 100 V	100 V to 1000 V
Resolution	1.6 mV	16 mV	1.6 mV	16 mV	1.6 mV	16 mV	1.6 mV	16 mV
Accuracy	± 0.025 % of (Reading + Range)							
Current Read Back								
Range (5 Digital)	0 A to 25 A	25 A to 250 A	0 A to 30 A	30 A to 300 A	0 A to 35 A	35 A to 350 A	0 A to 40 A	40 A to 400 A
Resolution	0.4 mA	4 mA	0.48 mA	4.8 mA	0.56 mA	5.6 mA	0.64 mA	6.4 mA
Accuracy	± 0.05 % of (Reading + Range)							
Power Read Back								
Range (5 Digital)	2500 W	25000 W	3000 W	30000 W	3500 W	35000 W	4000 W	40000 W
Resolution	0.1 W	1 W	0.1 W	1 W	0.1 W	1 W	0.1 W	1 W
Accuracy *2	± 0.06 % of (Reading + Range)							
General								
Short Circuit								
Current	250 A		300 A		350 A		400 A	
Load ON Voltage	10.4 V to 200 V							
Load OFF Voltage	0 V to 200 V							
Power Consumption	2350 Wmax		2800 Wmax		3250 Wmax		3700 Wmax	
Dimension(HxWxD)	1047 mm x 647 mm x 766 mm		1197 mm x 647 mm x 766 mm		1353 mm x 647 mm x 766 mm		1509 mm x 647 mm x 766 mm	
Weight	280 Kg		340 Kg		390 Kg		430 Kg	
Operating Range								
Temperature *3	0 °C to 40 °C							
Humidity	20 % to 85 %rh							
Storage Range								
Temperature	-20 °C to +70 °C							
Humidity	<= 90 %rh							
Withstanding Voltage test								
AC input and FG	AC 1500 V, 1 minute.							
AC input and Load terminal	AC 3000 V, 1 minute.							
Load terminal and FG	AC 1500 V, 1 minute.							
Safety & EMC	CE							

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 °C to 40 °C, All specifications apply for 25 °C±5 °C, Except as noted
Note *4 : µS (microsiemens) is the unit of conductance(G), one siemens equal to 1/Ω
Input AC Power : 100 Vac to 230 Vac ± 10 %, 50/60 Hz
Cooling : Advanced Fan Cooled
All specifications are subject to change without notice.

Order Information

34130A	High Power DC Electronic Load	60 V / 1000 A / 30 kW
34135A	High Power DC Electronic Load	60 V / 1000 A / 35 kW
34140A	High Power DC Electronic Load	60 V / 1000 A / 40 kW
34230A	High Power DC Electronic Load	600 V / 960 A / 30 kW
34235A	High Power DC Electronic Load	600 V / 1120 A / 35 kW
34240A	High Power DC Electronic Load	600 V / 1280 A / 40 kW
34330A	High Power DC Electronic Load	1000 V / 300 A / 30 kW
34335A	High Power DC Electronic Load	1000 V / 350 A / 35 kW
34340A	High Power DC Electronic Load	1000 V / 400 A / 40 kW

RS232 interface

GPIB interface

USB interface

LAN interface

STANDARD ACCESSORIES

Banana Plug x 2 PCs
BNC-BNC CABLE L=1M x 1 PC
HD-DSUB 15PIN Parallel Cable x 1 PC
Hex Head Screw M8*1.25 L=35mm NI x4 PCs
Round Head Phillips Screw M8*1.25 L=35mm NI x4 PCs
NUT M8 x 1.25 NI x 4 PCs
WASHER INSIDE DIA-8.5 OUTSIDE x 8 PCs
Power Cord x 1 PC

OPTIONAL ACCESSORIES

RS232 interface	Hook Ring
GPIB interface	FPIB cable length 1 m
USB interface	FPIB cable length 2 m
LAN interface	USB TYPE A to TYPE B cable length 1.8 m

GTL-170 1000 Ampere copper braid (single hole) 1M * 2
GTL-171 1000 Ampere copper braid (single hole) 2M * 2
GTL-172 1000 Ampere copper braid (single hole) 3M * 2
GTL-173 1000 Ampere copper braid (single hole) 4M * 2
GTL-174 1000 Ampere copper braid (single hole) 5M * 2
GTL-175 500 Ampere copper braid (single hole) 1M * 2
GTL-176 500 Ampere copper braid (single hole) 2M * 2
GTL-177 500 Ampere copper braid (single hole) 3M * 2
GTL-178 500 Ampere copper braid (single hole) 4M * 2

Note: * Regarding the product delivery date, please contact your regional sales representative.

Specifications subject to change without notice. 34000A_BH1_E_202507

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