



34000C Series

High Power DC Electronic Load

VP Your Power House
ELECTRONIQUE



COMPACT HIGH POWER DC ELECTRONIC LOAD

PRODIGIT
INSTRUMENT PROFESSIONAL

34000C Series Compact High Power DC Electronic Load

**150V
600V
1200V**

**6kW~
24kW**

**24
Models
Type**



Features

- Maximum power up to 192KW
- 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, 1200V 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.
- Built-in soft-start circuit function allowing the U.U.T. power supply to be directly connected to the 342xC、343xC series load input terminal, no longer need a large relay switch with an external soft-start circuit.

Descriptions

- 34000C 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 1200V 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

All specifications are subject to change without notice.

Specifications

MODEL	34106C		34108C		34110C		34112C	
Power ¹	6kW		8kW		10kW		12kW	
Current	0 ~ 60A	0 ~ 600A	0 ~ 80A	0 ~ 800A	0 ~ 100A	0 ~ 1000A	0 ~ 120A	0 ~ 1200A
Voltage					0 ~ 150V			
Min. Operating Voltage	0.7V @ 600A		0.7V @ 800A		0.7V @ 1000A		0.7V @ 1200A	
Protections								
Over Power Protection (OPP)					105%			
Over Current Protection (OCP)					104%			
Over Voltage Protection (OVP)					105%			
Over Temp Protection (OTP)					90°C ±5°C			
Constant Current Mode								
Range ²	60A	600A	80A	800A	100A	1000A	120A	1200A
Resolution	0.96mA	9.6mA	1.28mA	12.8mA	1.6mA	16mA	1.92mA	19.2mA
Accuracy ³	± 0.05% of (Setting + Range)							
Constant Resistance Mode								
Range	15000Ω~0.25Ω	0.25Ω~0.0012Ω	11250Ω~0.1875Ω	0.1875Ω~0.0009Ω	9000Ω~0.15Ω	0.15Ω~0.0007Ω	7500Ω~0.125Ω	0.125Ω~0.0006Ω
Resolution	66.666μS	4.167μΩ	88.888μS	3.125μΩ	111.111μS	2.5μΩ	133.333μS	2.084μΩ
Accuracy	± 0.2% of (Setting + Range)							
Constant Voltage Mode								
Range				150V				
Resolution				2.5mV				
Accuracy	± 0.025% of (Setting + Range)							
Constant Power Mode								
Range	600W	6000W	800W	8000W	1000W	10000W	1200W	12000W
Resolution	9.6mW	96mW	12.8mW	128mW	16mW	160mW	19.2mW	192mW
Accuracy	± 0.1% of (Setting+Range)							
Short / OCP / OPP Test Function								
Short Time				100ms~10 Sec. or Continue				
Meas. Accuracy				NA				
OCP Time(Tstep)				100ms				
Meas. Accuracy				NA				
OPP Time(Tstep)				100ms				
Meas. Accuracy				NA				
Constant Voltage + Current Limit Mode								
Range	150V	600A	150V	800A	150V	1000A	150V	1200A
Resolution	2.5mV	9.6mA	2.5mV	12.8mA	2.5mV	3.2mA	2.5mV	19.2mA
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)
Constant Voltage + Power Limit Mode								
Range	150V	6000W	150V	8000W	150V	10000W	150V	12000W
Resolution	2.5mV	96mW	2.5mV	128mW	2.5mV	160mW	2.5mV	192mW
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)
Surge Test								
Surge & Normal current	0~600A		0~800A		0~1000A		0~1200A	
Surge time	10~1000ms		10~1000ms		10~1000ms		10~1000ms	
Surge step				1~5				
MPPT Mode								
Algorithm				P&O				
Load mode				CV				
P&O interval				1000ms~60000ms ; resolution 1000ms				
Dynamic Mode								
Timing								
Thigh & Tlow				0.010~9.999 / 99.99 / 999.9 / 9999mS				
Resolution				0.001 / 0.01 / 0.1 / 1ms				
Accuracy				1μs / 10μs / 100μs / 1ms + 50ppm				
Slew Rate	0.0144A~0.9A/μs	0.144A~9A/μs	0.0192A~1.2A/μs	0.192A~12A/μs	0.024A~1.5A/μs	0.24A~15A/μs	0.0288A~1.8A/μs	0.288A~18A/μs
Resolution	0.0036A/μs	0.036A/μs	0.0048A/μs	0.048A/μs	0.006A/μs	0.06A/μs	0.0072A/μs	0.072A/μs
Min. Rise Time				66.7μs(typical)				
Accuracy				± (5% of Setting) ±10μs				
Current								
Range	0~60A	60~600A	0~80A	80~800A	0~100A	100~1000A	0~120A	120~1200A
Resolution	0.96mA	9.6mA	1.28mA	12.8mA	1.6mA	16mA	1.92mA	19.2mA
Measurement								
Voltage Read Back								
Range (5 Digital)	0~15V	15~150V	0~15V	15~150V	0~15V	15~150V	0~15V	15~150V
Resolution	0.25mV	2.5mV	0.25mV	2.5mV	0.25mV	2.5mV	0.25mV	2.5mV
Accuracy				±0.025% of (Reading + Range)				
Current Read Back								
Range (5 Digital)	0~60A	60~600A	0~80A	80~800A	0~100A	100~1000A	0~120A	120~1200A
Resolution	0.96mA	9.6mA	1.28mA	12.8mA	1.6mA	16mA	1.92mA	19.2mA
Accuracy				±0.05% of (Reading + Range)				
Power Read Back								
Range (5 Digital)	6000W		8000W		10000W		12000W	
Accuracy				± 0.06% of (Reading + Range)				
General								
Typical Short Resistance	0.0012Ω		0.0009Ω		0.0007Ω		0.0006Ω	
Maximum Short Current	600A		800A		1000A		1200A	
Load ON Voltage				0.25 ~ 62.5V				
Load OFF Voltage				0 ~ 62.5V				
Power Consumption	510VA		920VA		920VA		920VA	
Dimension (HxWxD)	446x444x763mm		572x444x763mm		572x444x763mm		572x444x763mm	
HxWxD (Not included wheels)	342x444x763mm		468x444x763mm		468x444x763mm		468x444x763mm	
Weight	62 kg		77.5 kg		84.8 kg		92 kg	
Temperature ⁴				0~40°C				
Safety & EMC				CE				

Cooling : Advanced Fan Cooled

Input AC Power : 100~230 Vac ±10%, 50/60Hz

Note *1 : The power rating specifications at ambient temperature = 25°C

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

Note *3 : If the operating current is below range 0.1%, the accuracy specification is 0.1% F.S.

Note *4 : Power F.S. = Vrange F.S. x Irange F.S.

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

Except as noted

Order Information

Options : ① Hook ring ② Rack Mount Kit for Rack

Optional interface : ① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card



x4



② Remove wheels



34106C 150V, 600A, 6kW



34108C 150V, 800A, 8kW



34110C 150V, 1000A, 10kW



34112C 150V, 1200A, 12kW



All specifications are subject to change without notice.

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Specifications

MODEL	34115C		34118C		34120C		34124C							
Power ¹	15KW	15KW	18KW	20KW	20KW	24KW								
Current	0 ~ 150A	0 ~ 1500A	0 ~ 180A	0 ~ 1800A	0 ~ 200A	0 ~ 2000A	0 ~ 200A	0 ~ 2000A						
Voltage				0 ~ 150V										
Min. Operating Voltage	0.7V @ 1500A		0.7V @ 1800A		0.7V @ 2000A		0.7V @ 2000A							
Protections														
Over Power Protection (OPP)	105%													
Over Current Protection (OCP)	104%													
Over Voltage Protection (OVP)	105%													
Over Temp Protection (OTP)	90°C±5°C													
Constant Current Mode														
Range ²	150A	1500A	180A	1800A	200A	2000A	200A	2000A						
Resolution	2.4mA	24mA	2.88mA	28.8mA	3.2mA	32mA	3.2mA	32mA						
Accuracy ³	± 0.05% of (Setting + Range)													
Constant Resistance Mode														
Range	6000Ω~0.1Ω	0.1Ω~0.0005Ω	5000Ω~0.0833Ω	0.0833Ω~0.0004Ω	4500Ω~0.075Ω	0.075Ω~0.0004Ω	4500Ω~0.075Ω	0.075Ω~0.0004Ω						
Resolution	166.666μS	1.667μΩ	200μS	1.389μΩ	222.22μS	1.25μΩ	222.22μS	1.25μΩ						
Accuracy	±0.2% of (Setting + Range)													
Constant Voltage Mode														
Range	150V													
Resolution	2.5mV													
Accuracy	± 0.025% of (Setting + Range)													
Constant Power Mode														
Range	1500W	15000W	1800W	18000W	2000W	20000W	2400W	24000W						
Resolution	24mW	240mW	28.8mW	288mW	32mW	320mW	38.4mW	384mW						
Accuracy	± 0.1% of (Setting+Range)													
Short / OCP / OPP Test Function														
Short Time	100ms~10 Sec. or Continue													
Meas. Accuracy	NA													
OCP Time(Tstep)	100ms													
Meas. Accuracy	NA													
OPP Time(Tstep)	100ms													
Meas. Accuracy	NA													
Constant Voltage + Current Limit Mode														
Range	150V	1500A	150V	1800A	150V	2000A	150V	2000A						
Resolution	2.5mV	24mA	2.5mV	28.8mA	2.5mV	32mA	2.5mV	32mA						
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	150V	15000W	150V	18000W	150V	20000W	150V	24000W						
Resolution	2.5mV	240mW	2.5mV	288mW	2.5mV	320mW	2.5mV	384mW						
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)						
Surge Test														
Surge & Normal current	0~1500A		0~1800A		0~2000A		0~2000A							
Surge time	10~1000ms		10~1000ms		10~1000ms		10~1000ms							
Surge step	1~5													
MPPT Mode														
Algorithm	P&O													
Load mode	CV													
P&O interval	1000ms~60000ms ; resolution 1000ms													
Dynamic Mode														
Timing														
Thigh & Tlow	0.010~9.999 / 99.99 / 999.9 / 9999mS													
Resolution	0.001 / 0.01 / 0.1 / 1ms													
Accuracy	1μs / 10μs / 100μs / 1ms + 50ppm													
Slew Rate	0.036A~2.25A/μs	0.360A~22.5A/μs	0.0432A~2.7A/μs	0.432A~27A/μs	0.048A~3A/μs	0.48A~30A/μs	0.048A~3A/μs	0.48A~30A/μs						
Resolution	0.009A/μs	0.09A/μs	0.0108A/μs	0.108A/μs	0.012A/μs	0.12A/μs	0.012A/μs	0.12A/μs						
Min. Rise Time	66.7μs(typical)													
Accuracy	± (5% of Setting) ± 10μs													
Current														
Range	0~150A	150~1500A	0~180A	180~1800A	0~200A	200~2000A	0~200A	200~2000A						
Resolution	2.4mA	24mA	2.88mA	28.8mA	3.2mA	32mA	3.2mA	32mA						
Measurement														
Voltage Read Back														
Range (5 Digital)	0~15V	15~150V	0~15V	15~150V	0~15V	15~150V	0~15V	15~150V						
Resolution	0.25mV	2.5mV	0.25mV	2.5mV	0.25mV	2.5mV	0.25mV	2.5mV						
Accuracy	± 0.025% of (Reading + Range)													
Current Read Back														
Range (5 Digital)	0~150A	15~1500A	0~180A	180~1800A	0~200A	200~2000A	0~200A	200~2000A						
Resolution	2.4mA	24mA	2.88mA	28.8mA	3.2mA	32mA	3.2mA	32mA						
Accuracy	± 0.05% of (Reading + Range)													
Power Read Back														
Range (5 Digital)	15000W		18000W		20000W		24000W							
Accuracy	± 0.06% of (Reading + Range)													
General														
Typical Short Resistance	0.0005Ω		0.0004Ω		0.0004Ω		0.0004Ω							
Maximum Short Current	1500A		1320A		2000A		2000A							
Load ON Voltage	0.25 ~ 62.5V													
Load OFF Voltage	0 ~ 62.5V													
Power Consumption	1320VA		1320VA		1700VA		1700VA							
Dimension (HxWxD)	761x444x763mm		761x444x763mm		887x444x763mm		887x444x763mm							
HxWxD (Not included wheels)	657x444x763mm		657x444x763mm		783x444x763mm		783x444x763mm							
Weight	116.5 kg		124 kg		140.5 kg		155 kg							
Temperature ⁴	0~40°C													
Safety & EMC	CE													

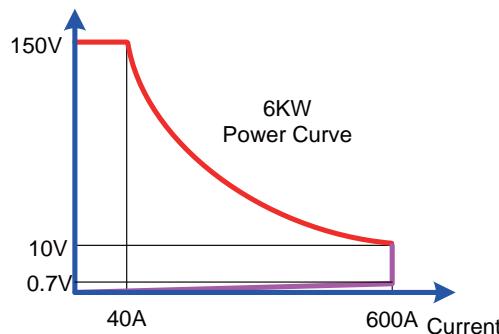
Cooling : Advanced Fan Cooled
Input AC Power : 100~230 Vac ±10%, 50/60Hz
Note *1 : The power rating specifications at ambient temperature = 25°C
Note *2 : The range is automatically or forcing to range II only in CC mode

Note *3 : If the operating current is below range 0.1%, the accuracy specification is 0.1% F.S.
Note *4 : Power F.S. = Vrange F.S. x Irange F.S.
Note *5 : Operating temperature range is 0~40°C, All specifications apply for 25°C±5°C,
Except as noted

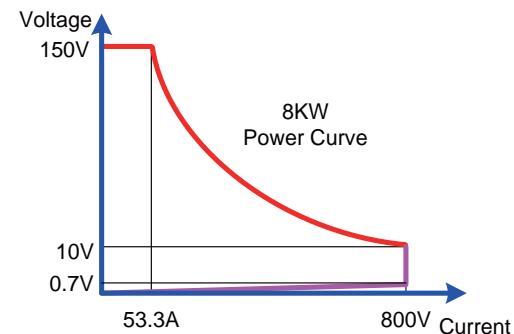
Order Information

Optional interface :	① GPIB Card	② RS232 Card	③ USB Card	④ LAN Card	Options :	① Hook ring	② Rack Mount Kit for Rack
					x4		③ Handles
							④ Remove wheels
34115C 150V, 1500A, 15KW	34118C 150V, 1800A, 18KW	34120C 150V, 2000A, 20KW	34124C 150V, 2000A, 24KW				

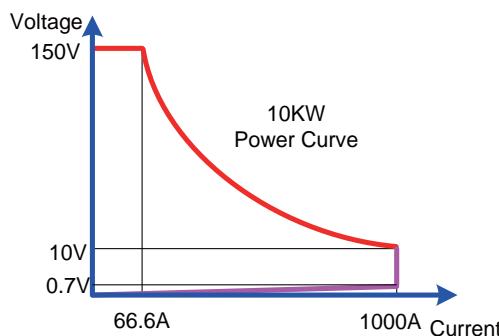
Power Curve



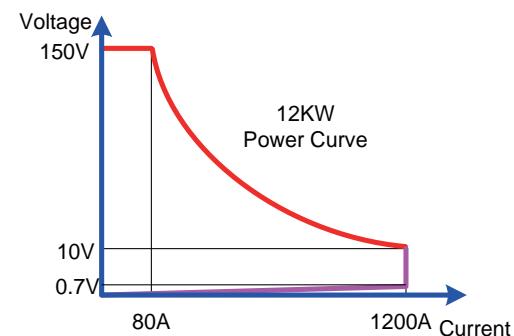
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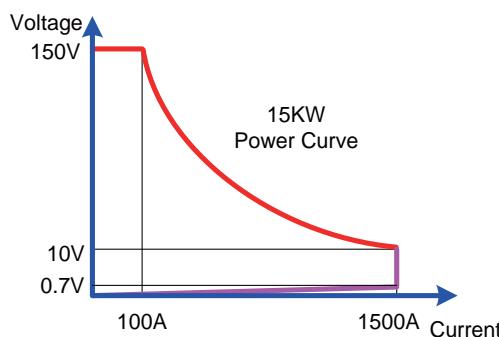
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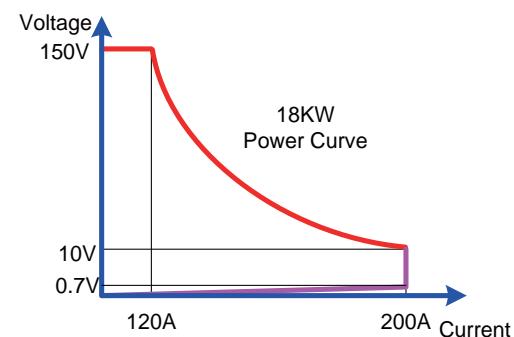
34110C



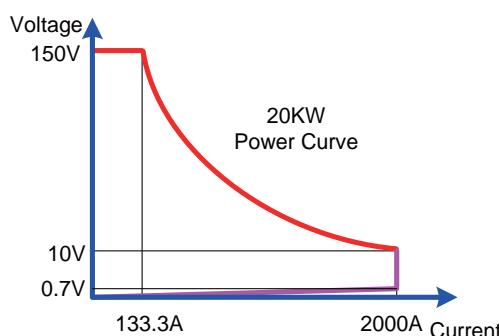
34112C



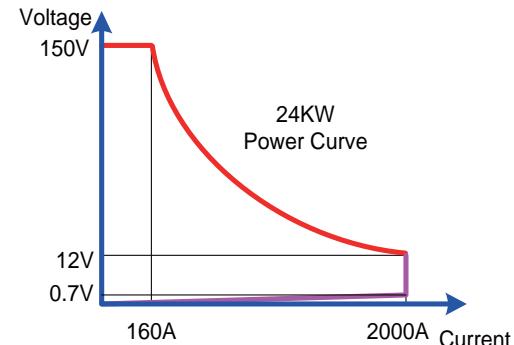
34115C



34118C



34120C



34124C

Specifications

MODEL	34206C	34208C	34210C	34212C
Power ¹	6kW	8kW	10kW	12kW
Current	0 ~ 42A	0 ~ 420A	0 ~ 56A	0 ~ 700A
Voltage				0 ~ 600V
Min. Operating Voltage	10V @ 420A	10V @ 560A	10V @ 700A	10V @ 840A
Protections				
Over Power Protection (OPP)	105%			
Over Current Protection (OCP)	104%			
Over Voltage Protection (OVP)	105%			
Over Temp Protection (OTP)	90°C±5°C			
Constant Current Mode				
Range ²	42A	420A	56A	560A
Resolution	0.672mA	6.72mA	0.896mA	8.96mA
Accuracy ³	± 0.05% of (Setting + Range)			
Constant Resistance Mode				
Range	85712Ω~1.42853Ω	1.42853Ω~0.02384Ω	64284Ω~1.0714Ω	1.0714Ω~0.01788Ω
Resolution	11.6669μS	23.84μΩ	15.5559μS	17.88μΩ
Accuracy	±0.2% of (Setting + Range)			
Constant Voltage Mode				
Range				600V
Resolution				10mV
Accuracy	± 0.025% of (Setting + Range)			
Constant Power Mode				
Range	600W	6000W	800W	8000W
Resolution	9.6mW	96mW	12.8mW	128mW
Accuracy	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)
Short / OCP / OPP Test Function				
Short Time	100ms~10 Sec. or Continue			
Meas. Accuracy	NA			
OCP Time(Tstep)	100mS			
Meas. Accuracy	NA			
OPP Time(Tstep)	100mS			
Meas. Accuracy	NA			
Constant Voltage + Current Limit Mode				
Range	600V	420A	600V	560A
Resolution	10mV	6.72mA	10mV	8.96mA
Accuracy	±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	6000W	600V	8000W
Resolution	10mV	96mW	10mV	128mW
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
Surge Test				
Surge & Normal current	0~420A	0~560A	0~700A	0~840A
Surge time	10~1000ms	10~1000ms	10~1000ms	10~1000ms
Surge step	1~5			
MPPT Mode				
Algorithm	P&O			
Load mode	CV			
P&O interval	1000ms~60000ms ; resolution 1000ms			
Dynamic Mode				
Timing				
Thigh & Tlow	0.010~9.999 / 99.99 / 999.9 / 9999mS			
Resolution	0.001 / 0.01 / 0.1 / 1ms			
Accuracy	1μs / 10μs / 100μs / 1ms + 50ppm			
Slew Rate	0.0288~1.8A/μs	0.288A~18A/μs	0.0288A~1.8A/μs	0.288A~18A/μs
Resolution	0.0072A/μs	0.072A/μs	0.0072A/μs	0.072A/μs
Accuracy	± (5% of Setting) ±10μs			
Current				
Range	0~42A	42~420A	0~56A	56~560A
Resolution	0.672mA	6.72mA	0.896mA	8.96mA
Measurement				
Voltage Read Back				
Range (5 Digital)	0~60V	60~600V	0~60V	60~600V
Resolution	1mV	10mV	1mV	10mV
Accuracy	±0.025% of (Reading + Range)			
Current Read Back				
Range (5 Digital)	0~42A	42~420A	0~56A	56~560A
Resolution	0.672mA	6.72mA	0.896mA	8.96mA
Accuracy	±0.05% of (Reading + Range)			
Power Read Back				
Range (5 Digital)	6000W		8000W	10000W
Accuracy	± 0.06% of (Reading + Range)			
General				
Typical Short Resistance	0.0239Ω	0.0179Ω	0.0143Ω	0.00120Ω
Maximum Short Current	420A	560A	700A	840A
Load ON Voltage	0.4 ~ 100V			
Load OFF Voltage	0 ~ 100V			
Power Consumption	510VA	920VA	920VA	920VA
Dimension (HxWxD)	446x444x763mm	572x444x763mm	572x444x763mm	572x444x763mm
HxWxD (Not included wheels)	342x444x763mm	468x444x763mm	468x444x763mm	468x444x763mm
Weight	62 kg	77.5 kg	84.8 kg	92 kg
Temperature⁴	0~40°C			
Safety & EMC	CE			

Cooling : Advanced Fan Cooled

Input AC Power : 100~230 Vac ±10% , 50/60Hz

Note *4 : The power rating specifications at ambient temperature = 25°C

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

Note *3 : If the operating current is below range 0.1%, the accuracy specification is 0.1% F.S.

Note *4 : Power F.S. = Vrange F.S. x Irange F.S.

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

Order Information

Optional interface : ① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card

Options : ① Hook ring ② Rack Mount Kit for Rack



34206C 600V , 420A , 6kW

34208C 600V , 560A , 8kW

34210C 600V , 700A , 10kW

34212C 600V , 840A , 12kW



Specifications

MODEL	34215C	34218C	34220C	34224C
Power ¹	15kW	18kW	20kW	24kW
Current	0 ~ 105A	0 ~ 1050A	0 ~ 126A	0 ~ 1260A
Voltage				0 ~ 600V
Min. Operating Voltage	10V @ 1050A	10V @ 1260A	10V @ 1400A	10V @ 1680A
Protections				
Over Power Protection (OPP)			105%	
Over Current Protection (OCP)			104%	
Over Voltage Protection (OVP)			105%	
Over Temp Protection (OTP)			90°C ± 5°C	
Constant Current Mode				
Range ²	105A	1050A	126A	1260A
Resolution	1.68mA	16.8mA	2.016mA	20.16mA
Accuracy ³				± 0.05% of (Setting + Range)
Constant Resistance Mode				
Range	34284.8~0.571413Ω	0.571413~0.009536Ω	28570.67~0.476178Ω	0.476178~0.007947Ω
Resolution	29.1674μS	9.536μΩ	35.0009μS	7.947μΩ
Accuracy				± 0.2% of (Setting + Range)
Constant Voltage Mode				
Range				600V
Resolution				10mV
Accuracy				± 0.025% of (Setting + Range)
Constant Power Mode				
Range	1500W	15000W	1800W	18000W
Resolution	24mW	240mW	28.8mW	288mW
Accuracy	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)
Short / OCP / OPP Test Function				
Short Time				100ms~10 Sec. or Continue
Meas. Accuracy				NA
OCP Time(Tstep)				100mS
Meas. Accuracy				NA
OPP Time(Tstep)				100mS
Meas. Accuracy				NA
Constant Voltage + Current Limit Mode				
Range	600V	1050A	600V	1260A
Resolution	10mV	16.8mA	10mV	20.16mA
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)
Constant Voltage + Power Limit Mode				
Range	600V	15000W	600V	18000W
Resolution	10mV	240mW	10mV	288mW
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)
Surge Test				
Surge & Normal current	0~1050A	0~1260A	0~1400A	0~1680A
Surge time	10~1000ms	10~1000ms	10~1000ms	10~1000ms
Surge step			1~5	
MPPT Mode				
Algorithm		P&O		
Load mode		CV		
P&O interval		1000ms~60000ms ; resolution 1000ms		
Dynamic Mode				
Timing				
Thigh & Tlow		0.010~9.999 / 99.99 / 999.9 / 9999mS		
Resolution		0.001 / 0.01 / 0.1 / 1ms		
Accuracy		1μs / 10μs / 100μs / 1ms + 50ppm		
Slew Rate	0.0432A~2.7A/μs	0.432A~27A/μs	0.048A~3A/μs	0.48A~30A/μs
Resolution	0.0108A/μs	0.108A/μs	0.012A/μs	0.12A/μs
Accuracy				0.0576A~3.6A/μs
			0.132A/μs	0.144A/μs
Current				
Range	0~105A	105~1050A	0~126A	126~1260A
Resolution	1.68mA	16.8mA	2.016mA	20.16mA
Accuracy				2.24mA
			22.4mA	22.4mA
Measurement				
Voltage Read Back				
Range (5 Digital)	0~60V	60~600V	0~60V	60~600V
Resolution	1mV	10mV	1mV	10mV
Accuracy				± 0.025% of (Reading + Range)
Current Read Back				
Range (5 Digital)	0~105A	105~1050A	0~126A	126~1260A
Resolution	1.68mA	16.8mA	2.016mA	20.16mA
Accuracy				2.24mA
			22.4mA	22.4mA
Power Read Back				
Range (5 Digital)	15000W	18000W	20000W	24000W
Accuracy			± 0.06% of (Reading + Range)	
General				
Typical Short Resistance	0.0096Ω	0.0080Ω	0.0072Ω	0.0060Ω
Maximum Short Current	1050A	1260A	1400A	1680A
Load ON Voltage		0.4 ~ 100V		
Load OFF Voltage		0 ~ 100V		
Power Consumption	1320VA	1320VA	1700VA	1700VA
Dimension (HxWxD)	761x444x763mm	761x444x763mm	887x444x763mm	887x444x763mm
HxWxD (Not included wheels)	657x444x763mm	657x444x763mm	783x444x763mm	783x444x763mm
Weight	116.5 kg	124 kg	140.5 kg	155 kg
Temperature ⁴		0~40°C		
Safety & EMC		CE		

Cooling : Advanced Fan Cooled

Input AC Power : 100~230 Vac ±10% , 50/60Hz

Note *1 : The power rating specifications at ambient temperature = 25°C

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

Note *3 : If the operating current is below range 0.1%, the accuracy specification is 0.1% F.S.

Note *4 : Power F.S. = Vrange F.S. x Irange F.S.

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

Order Information

Options :



x4



Optional interface :

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



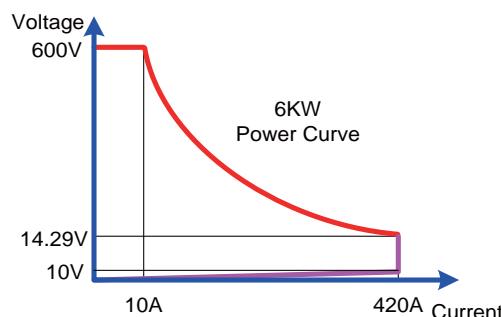
③ Handles



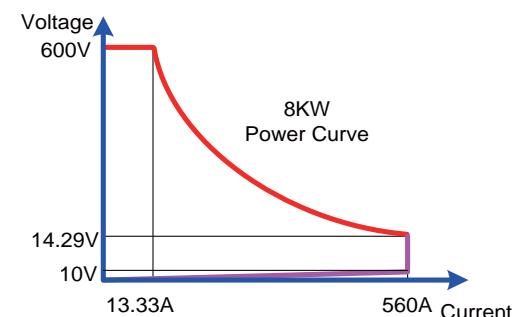
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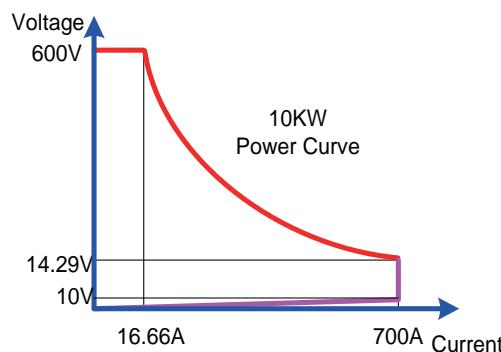
Power Curve



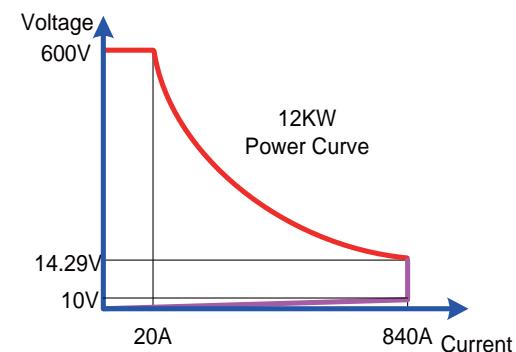
34206C



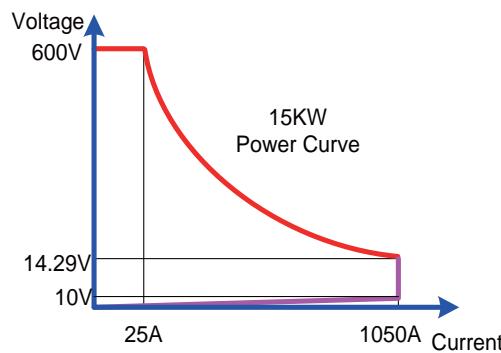
34208C



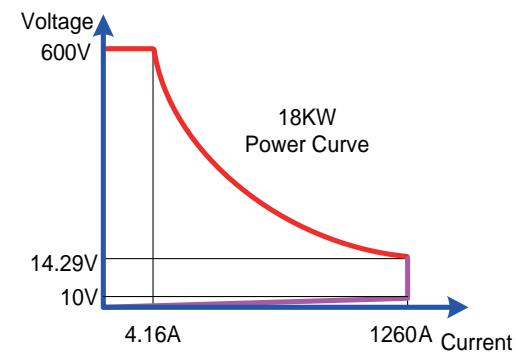
34210C



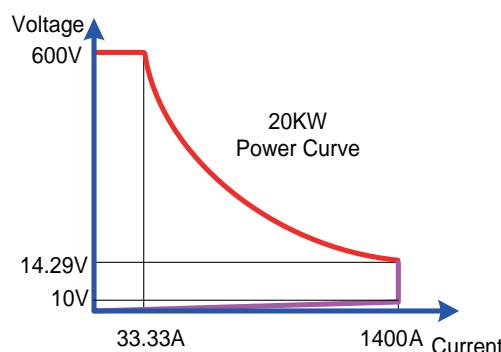
34212C



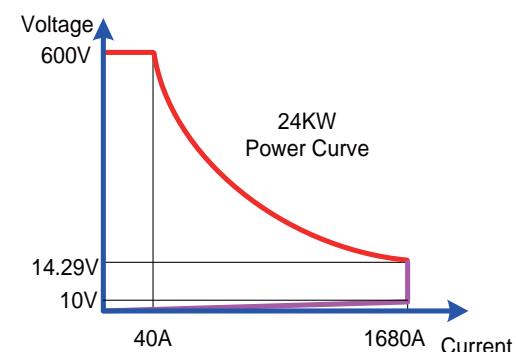
34215C



34218C



34220C



34224C

Specifications

MODEL	34306C	34308C	34310C	34312C
Power ¹	6kW	8kW	10kW	12kW
Current	0 ~ 24A	0 ~ 240A	0 ~ 32A	0 ~ 400A
Voltage			0 ~ 1200V	
Min. Operating Voltage	15V @ 240A	15V @ 320A	15V @ 400A	15V @ 480A
Protections				
Over Power Protection (OPP)	105%			
Over Current Protection (OCP)	104%			
Over Voltage Protection (OVP)	104%			
Over Temp Protection (OTP)	90°C±5°C			
Constant Current Mode				
Range ²	24A	240A	32A	320A
Resolution	0.384mA	3.84mA	0.512mA	5.12mA
Accuracy ³	± 0.05% of (Setting + Range)			
Constant Resistance Mode				
Range	30KΩ~5Ω	5Ω~0.0625Ω	22.5KΩ~3.75Ω	3.75Ω~0.0468Ω
Resolution	3.333μS	83.334μΩ	4.444μS	62.5μΩ
Accuracy	± 0.2% of (Setting + Range)			
Constant Voltage Mode				
Range			1200V	
Resolution			20mV	
Accuracy	± 0.025% of (Setting + Range)			
Constant Power Mode				
Range	600W	6000W	800W	8000W
Resolution	9.6mW	96mW	12.8mW	128mW
Accuracy	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)
Short / OCP / OPP Test Function				
Short Time	100ms~10 Sec. or Continue			
Meas. Accuracy	NA			
OCP Time(Tstep)	100mS			
Meas. Accuracy	NA			
OPP Time(Tstep)	100mS			
Meas. Accuracy	NA			
Constant Voltage + Current Limit Mode				
Range	1200V	240A	1200V	320A
Resolution	20mV	3.84mA	20mV	5.12mA
Accuracy	±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	1200V	6000W	1200V	8000W
Resolution	20mV	96mW	20mV	128mW
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
Surge Test				
Surge & Normal current	0~240A	0~320A	0~400A	0~480A
Surge time	10~1000ms	10~1000ms	10~1000ms	10~1000ms
Surge step	1~5			
MPPT Mode				
Algorithm	P&O			
Load mode	CV			
P&O interval	1000ms~60000ms : resolution 1000ms			
Dynamic Mode				
Timing				
Thigh & Tlow	0.010~9.999 / 99.99 / 999.9 / 9999mS			
Resolution	0.001 / 0.01 / 0.1 / 1ms			
Accuracy	1μs / 10μs / 100μs / 1ms + 50ppm			
Slew Rate	0.0192A~1.2A/μs	0.192A~12A/μs	0.0192A~1.2A/μs	0.192A~12A/μs
Resolution	0.0048A/μs	0.048A/μs	0.0048A/μs	0.048A/μs
Accuracy	± (5% of Setting) ± 10μs			
Current				
Range	0~24A	24~240A	0~32A	32~320A
Resolution	0.384mA	3.84mA	0.512mA	5.12mA
Measurement				
Voltage Read Back				
Range (5 Digital)	0~120V	120~1200V	0~120V	120~1200V
Resolution	2mV	20mV	2mV	20mV
Accuracy	±0.025% of (Reading + Range)			
Current Read Back				
Range (5 Digital)	0~24A	24~240A	0~32A	32~320A
Resolution	0.384mA	3.84mA	0.512mA	5.12mA
Accuracy	±0.05% of (Reading + Range)			
Power Read Back				
Range (5 Digital)	6000W		8000W	10000W
Accuracy	± 0.06% of (Reading + Range)			
General				
Typical Short Resistance	0.0625Ω		0.0469Ω	0.0375Ω
Maximum Short Current	240A		320A	400A
Load ON Voltage	0.96 ~ 240V			
Load OFF Voltage	0 ~ 240V			
Power Consumption	510VA			
Dimension (HxWxD)	446x444x763mm		572x444x763mm	572x444x763mm
HxWxD (Not included wheels)	342x444x763mm		468x444x763mm	468x444x763mm
Weight	62 kg		77.5 kg	84.8 kg
Temperature ⁴	0~40°C			
Safety & EMC	CE			

Cooling : Advanced Fan Cooled

Input AC Power : 100~230 Vac ±10% , 50/60Hz

Note *1 : The power rating specifications at ambient temperature = 25°C

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

Note *3 : If the operating current is below range 0.1%, the accuracy specification is 0.1% F.S.

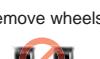
Note *4 : Power F.S. = Vrange F.S. x Irange F.S.

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

Order Information

Options : ① Hook ring ② Rack Mount Kit for Rack

Optional interface : ① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card



34306C 1200V, 240A, 6kW

34308C 1200V, 320A, 8kW

34310C 1200V, 400A, 10kW

34312C 1200V, 480A, 12kW

Specifications

MODEL	34315C	34318C	34320C	34324C
Power ¹	15KW	18KW	20KW	24KW
Current	0 ~ 60A	0 ~ 600A	0 ~ 72A	0 ~ 800A
Voltage			0 ~ 1200V	
Min. Operating Voltage	15V @ 600A	15V @ 720A	15V @ 800A	15V @ 960A
Protections				
Over Power Protection (OPP)	105%			
Over Current Protection (OCP)	104%			
Over Voltage Protection (OVP)	104%			
Over Temp Protection (OTP)	90°C±5°C			
Constant Current Mode				
Range ²	60A	600A	72A	720A
Resolution	0.96mA	9.6mA	1.152mA	11.52mA
Accuracy ³	± 0.05% of (Setting + Range)			
Constant Resistance Mode				
Range	12KΩ~2Ω	2Ω~ 0.0250Ω	10KΩ~1.666Ω	1.666Ω~0.0208Ω
Resolution	8.3333μS	33.334μΩ	10μS	27.778μΩ
Accuracy	± 0.2% of (Setting + Range)			
Constant Voltage Mode				
Range			1200V	
Resolution			20mV	
Accuracy	± 0.025% of (Setting + Range)			
Constant Power Mode				
Range	1500W	15000W	1800W	18000W
Resolution	24mW	240mW	28.8mW	288mW
Accuracy	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)
Short / OCP / OPP Test Function				
Short Time	100ms~10 Sec. or Continue			
Meas. Accuracy	NA			
OCP Time(Tstep)	100mS			
Meas. Accuracy	NA			
OPP Time(Tstep)	100mS			
Meas. Accuracy	NA			
Constant Voltage + Current Limit Mode				
Range	1200V	600A	1200V	720A
Resolution	20mV	9.6mA	20mV	3.2mA
Accuracy	±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	1200V	15000W	1200V	18000W
Resolution	20mV	240mW	20mV	288mW
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
Surge Test				
Surge & Normal current	0~600A	0~720A	0~800A	0~960A
Surge time	10~1000ms	10~1000ms	10~1000ms	10~1000ms
Surge step	1~5			
MPPT Mode				
Algorithm	P&O			
Load mode	CV			
P&O interval	1000ms~60000ms ; resolution 1000ms			
Dynamic Mode				
Timing				
Thigh & Tlow	0.010~9.999 / 99.99 / 999.9 / 9999mS			
Resolution	0.001 / 0.01 / 0.1 / 1ms			
Accuracy	1μs / 10μs / 100μs / 1ms + 50ppm			
Slew Rate	0.0288A~1.8A/μs	0.288A~18A/μs	0.032A~2A/μs	0.32A~20A/μs
Resolution	0.0072A/μs	0.072A/μs	0.008A/μs	0.08A/μs
Accuracy	± (5% of Setting) ± 10μs			
Current				
Range	0~60A	60~600A	0~72A	72~720A
Resolution	0.96mA	9.6mA	1.152mA	11.52mA
Measurement				
Voltage Read Back				
Range (5 Digital)	0~120V	120~1200V	0~120V	120~1200V
Resolution	2mV	20mV	2mV	20mV
Accuracy	±0.025% of (Reading + Range)			
Current Read Back				
Range (5 Digital)	0~60A	60~600A	0~72A	72~720A
Resolution	0.96mA	9.6mA	1.152mA	11.52mA
Accuracy	±0.05% of (Reading + Range)			
Power Read Back				
Range (5 Digital)	15000W	18000W	20000W	24000W
Accuracy	± 0.06% of (Reading + Range)			
General				
Typical Short Resistance	0.0250Ω	0.0209Ω	0.0188Ω	0.0157Ω
Maximum Short Current	600A	720A	800A	960A
Load ON Voltage	0.96 ~ 240V			
Load OFF Voltage	0 ~ 240V			
Power Consumption	1320VA	1320VA	1700VA	1700VA
Dimension (HxWxD)	761x444x763mm	761x444x763mm	887x444x763mm	887x444x763mm
HxWxD (Not included wheels)	657x444x763mm	657x444x763mm	783x444x763mm	783x444x763mm
Weight	116.5 kg	124 kg	140.5 kg	155 kg
Temperature⁴	0~40°C			
Safety & EMC	CE			

Cooling : Advanced Fan Cooled

Input AC Power : 100~230 Vac ±10% , 50/60Hz

Note *4 : The power rating specifications at ambient temperature = 25°C

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

Note *3 : If the operating current is below range 0.1%, the accuracy specification is 0.1% F.S.

Note *4 : Power F.S. = Vrange F.S. x Irange F.S.

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

Order Information

Optional interface : ① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card

Options : ① Hook ring ② Rack Mount Kit for Rack



34315C 1200V, 600A, 15KW

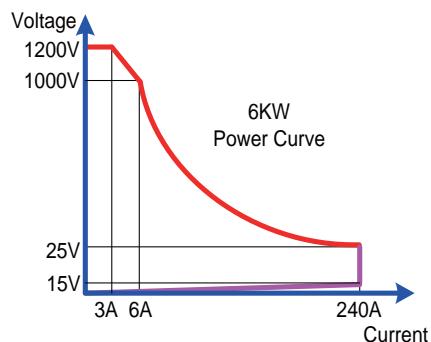
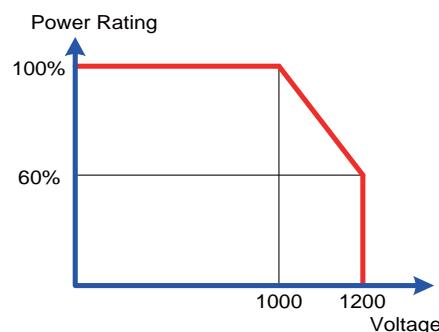
34318C 1200V, 720A, 18KW

34320C 1200V, 800A, 20KW

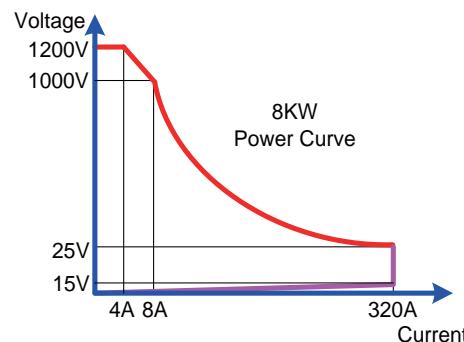
34324C 1200V, 960A, 24KW



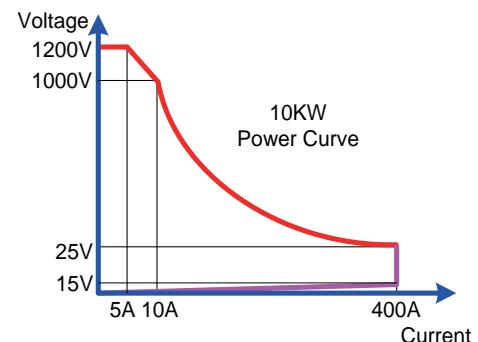
Power Curve



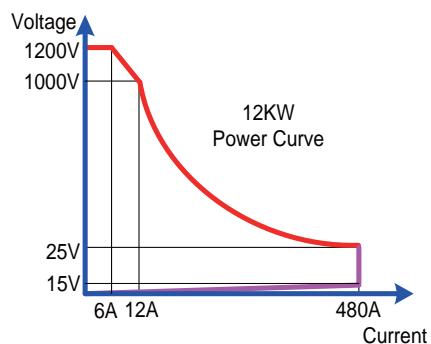
34306C



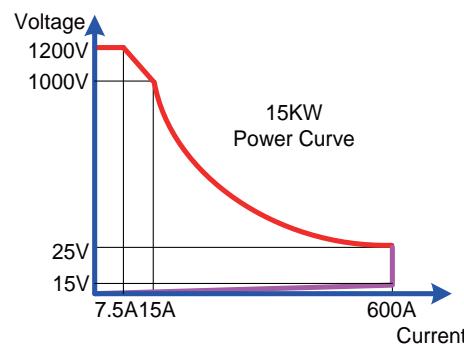
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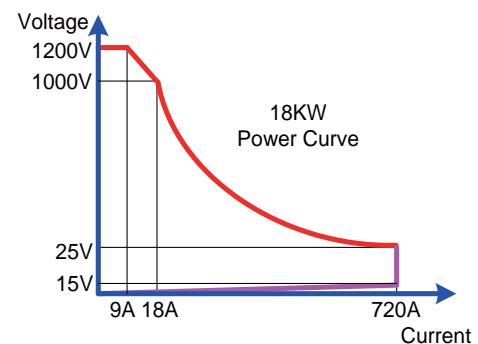
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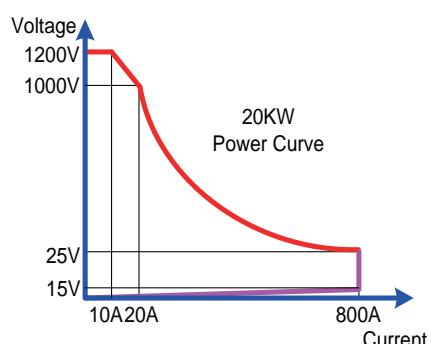
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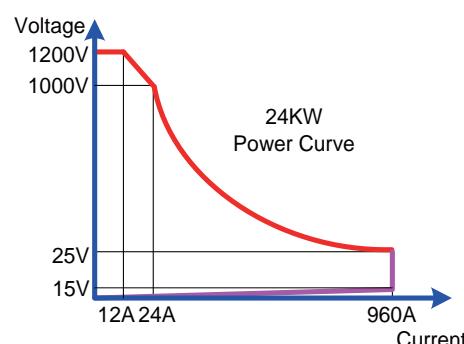
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34318C

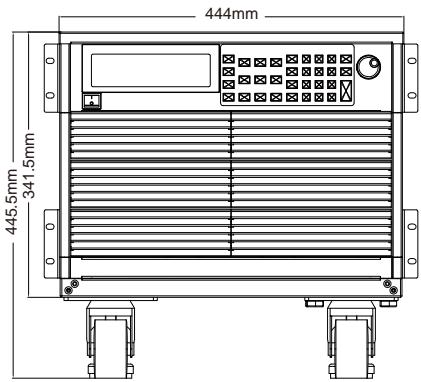


34320C

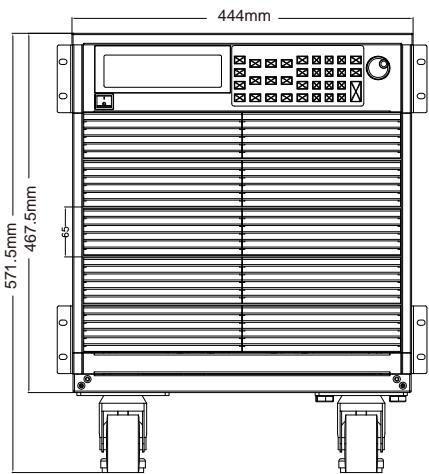
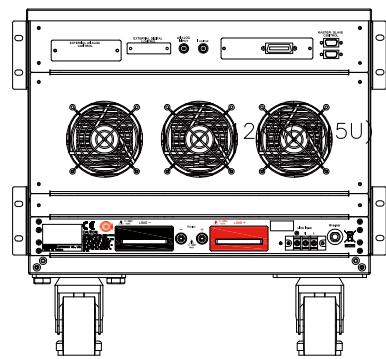
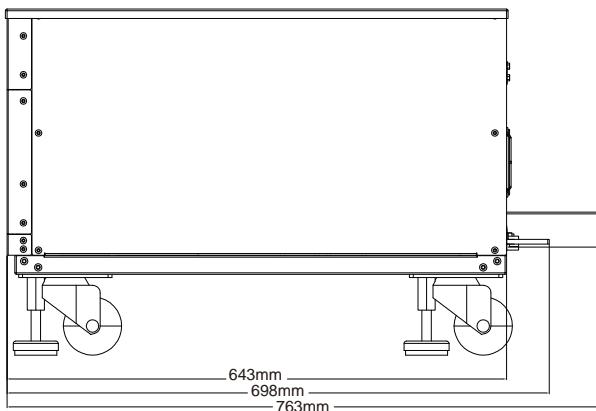
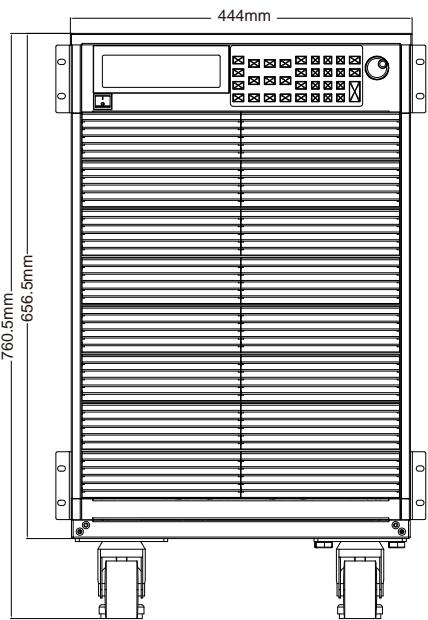
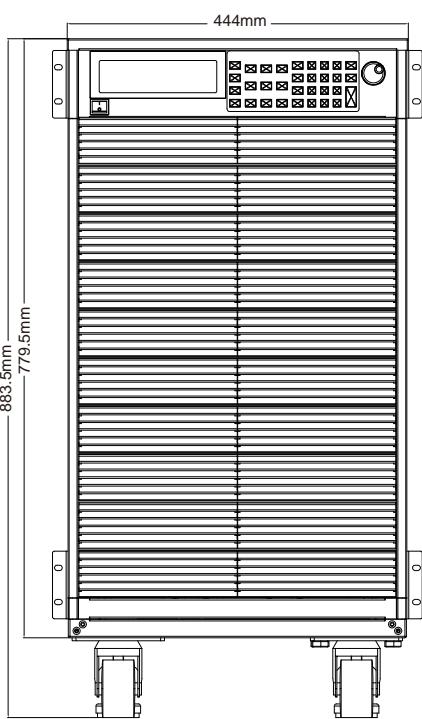


34324C

External Dimensions 34000C Series High Power DC Electronic Load



34106C / 34206C / 34306C

34108C / 34110C / 34112C
34208C / 34210C / 34212C
34308C / 34310C / 34312C34115C / 34118C
34215C / 34218C
34315C / 34318C34120C / 34124C
34220C / 34224C
34320C / 34324C