

34000C Series Compact High Power DC Electronic Load

150V
600V
1000V

6kW~
24kW

12
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.

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

Specifications

MODEL	34106C		34108C		34110C		34112C	
Power	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 ¹	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	± 0.05% of (Setting + Range)							
Constant Resistance Mode								
Range	6000Ω~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	16.666μS	4.167μΩ	88.888μS	3.125μΩ	111.111μS	2.5μΩ	133.333μS	2.1μΩ
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)							
Constant Voltage Mode + Constant Current 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	± 1.0% of (Setting + Range)							
Constant Voltage Mode + Constant Power Mode								
Range	150V	6000W	150V	8000W	150V	10000W	150V	12000W
Resolution	2.5mV	96mW	2.5mV	128mW	2.5mV	160mW	2.5mV	192mW
Accuracy	± 1.0% of (Setting + Range)							
MPPT Mode								
Algorithm	P&O							
Load mode	CV							
P&O interval	1000ms~60000ms ; resolution 1ms							
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	0.192A~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)							
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)	600W	6000W	800W	8000W	1000W	10000W	1200W	12000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy	±0.075% 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	400VA		750VA		750VA		750VA	
Operating Temperature ²	0~40°C							
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	
Safety & EMC	CE							

Cooling : Advanced Fan Cooled

Input AC Power : 100~230 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

Order Information

Optional interface :

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



34106C 150V , 600A , 6KW



34108C 150V , 800A , 8KW



34110C 150V , 1000A , 10KW



34112C 150V , 1200A , 12KW

Specifications

MODEL	34115C		34118C		34120C		34124C	
Power	15KW		18KW		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 ¹	150A	1500A	180A	1800A	200A	2000A	200A	2000A
Resolution	2.4mA	24mA	2.88mA	28.8mA	3.2mA	32mA	3.2mA	32mA
Accuracy	± 0.05% of (Setting + Range)							
Constant Resistance Mode								
Range	4500Ω~3.75Ω	3.75Ω~0.0005Ω	5000Ω~0.0833Ω	0.0833Ω~0.0004Ω	4500Ω~0.075Ω	0.075Ω~0.0004Ω	4500Ω~0.075Ω	0.075Ω~0.0004Ω
Resolution	222.222μS	62.5μΩ	200μS	1.39μΩ	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)							
Constant Voltage Mode + Constant Current 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	± 1.0% of (Setting + Range)							
Constant Voltage Mode + Constant Power Mode								
Range	150V	15000W	150V	18000W	150V	20000W	150V	24000W
Resolution	2.5mV	240mW	2.5mV	288mW	2.5mV	320mW	2.5mV	384mW
Accuracy	± 1.0% of (Setting + Range)							
MPPT Mode								
Algorithm	P&O							
Load mode	CV							
P&O interval	1000ms~60000ms ; resolution 1ms							
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)							
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)	1500W	15000W	1800W	18000W	2000W	20000W	2400W	24000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy	± 0.075% of (Reading + Range)							
General								
Typical Short Resistance	0.0005Ω		0.0004Ω		0.0004Ω		0.0004Ω	
Maximum Short Current	1500A		1800A		2000A		2000A	
Load ON Voltage	0.25 ~ 62.5V							
Load OFF Voltage	0 ~ 62.5V							
Power Consumption	1100VA		1100VA		1450VA		1450VA	
Operating Temperature ²	0~40°C							
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	
Safety & EMC	CE							

Cooling : Advanced Fan Cooled

Input AC Power : 100~230 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

Order Information

Optional interface :

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



34115C 150V , 1500A , 15KW



34118C 150V , 1800A , 18KW

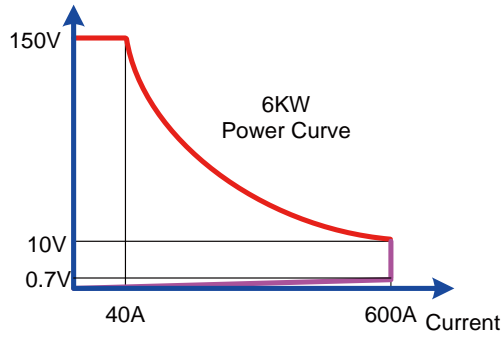


34120C 150V , 2000A , 20KW

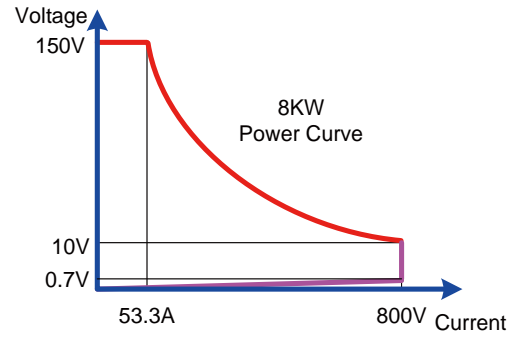


34124C 150V , 2000A , 24KW

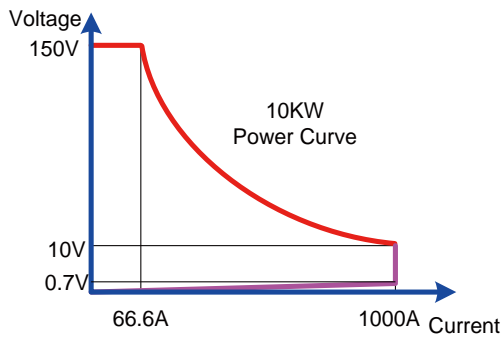
Power Curve



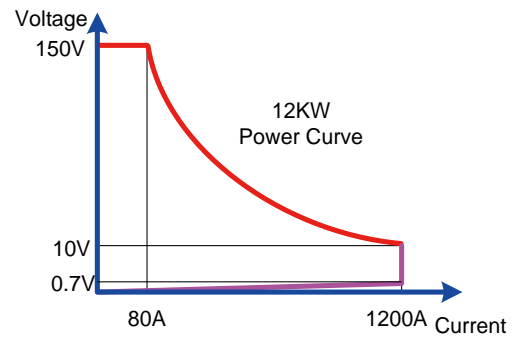
34106C



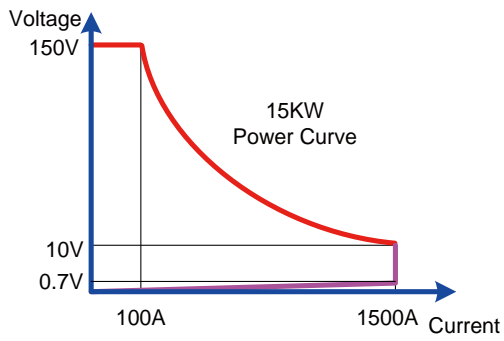
34108C



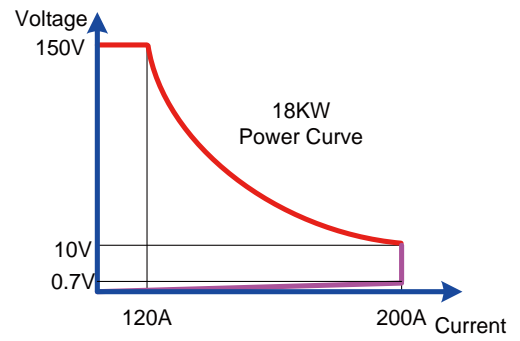
34110C



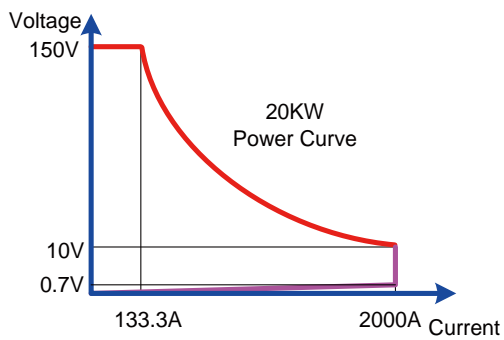
34112C



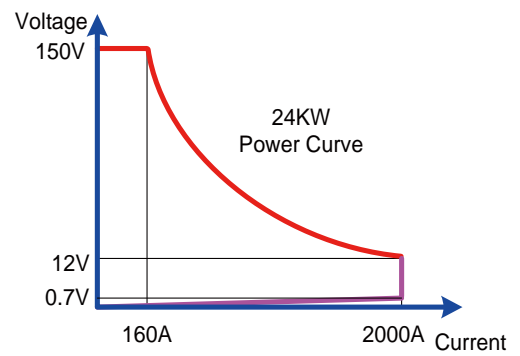
34115C



34118C



34120C



34124C

Specifications

MODEL	34206C		34208C		34210C		34212C	
Power	6KW		8KW		10KW		12KW	
Current	0 ~ 42A	0 ~ 420A	0 ~ 56A	0 ~ 560A	0 ~ 70A	0 ~ 700A	0 ~ 84A	0 ~ 840A
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 ¹	42A	420A	56A	560A	70A	700A	84A	840A
Resolution	0.672mA	6.72mA	0.896mA	8.96mA	1.12mA	11.2mA	1.334mA	13.44mA
Accuracy	± 0.05% of (Setting + Range)							
Constant Resistance Mode								
Range	85740Ω~1.429Ω	1.429Ω~0.0239Ω	64320Ω~1.072Ω	1.072Ω~0.0179Ω	51420Ω~0.857Ω	0.857Ω~0.0143Ω	42840Ω~0.714Ω	0.714Ω~0.0120Ω
Resolution	11.66316μS	23.82μΩ	15.54726μS	17.87μΩ	19.44768μS	14.29μΩ	23.34267μS	11.9μΩ
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	1000W	10000W	1200W	12000W
Resolution	9.6mW	96mW	12.8mW	128mW	16mW	160mW	19.2mW	192mW
Accuracy	± 0.1% of (Setting + Range)							
Constant Voltage Mode + Constant Current Mode								
Range	600V	420A	600V	560A	600V	700A	600V	840A
Resolution	10mV	6.72mA	10mV	8.96mA	10mV	11.2mA	10mV	13.44mA
Accuracy	± 1.0% of (Setting + Range)							
Constant Voltage Mode + Constant Power Mode								
Range	600V	6000W	600V	8000W	600V	10000W	600V	12000W
Resolution	10mV	96mW	10mV	128mW	10mV	160mW	10mV	192mW
Accuracy	± 1.0% of (Setting + Range)							
MPPT Mode								
Algorithm	P&O							
Load mode	CV							
P&O interval	1000ms~60000ms ; resolution 1ms							
Dynamic Mode								
Timing								
Thigh & Tlow	0.010~9.999 / 99.99 / 999.9 / 9999mS							
Resolution	0.001 / 0.01 / 0.1 / 1 ms							
Accuracy	1μs / 10μs / 100μs / 1ms + 50ppm							
Slew Rate	0.0336A~2.1A/μs	0.336A~21A/μs	0.0448A~2.8A/μs	0.448A~28A/μs	0.056A~3.5A/μs	0.56A~35A/μs	0.0672A~4.2A/μs	0.672A~42A/μs
Resolution	0.0084A/μs	0.084A/μs	0.0112A/μs	0.112A/μs	0.014A/μs	0.14A/μs	0.0168A/μs	0.168A/μs
Min. Rise Time	20μs(typical)							
Current								
Range	0~42A	42~420A	0~56A	56~560A	0~70A	70~700A	0~84A	84~840A
Resolution	0.672mA	6.72mA	0.896mA	8.96mA	1.12mA	11.2mA	1.334mA	13.34mA
Measurement								
Voltage Read Back								
Range (5 Digital)	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
Accuracy	±0.025% of (Reading + Range)							
Current Read Back								
Range (5 Digital)	0~42A	42~420A	0~56A	56~560A	0~70A	70~700A	0~84A	84~840A
Resolution	0.672mA	6.72mA	0.896mA	8.96mA	1.12mA	11.2mA	1.334mA	13.34mA
Accuracy	±0.05% of (Reading + Range)							
Power Read Back								
Range (5 Digital)	600W	6000W	800W	8000W	1000W	10000W	1200W	12000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy	±0.075% 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	400VA		750VA		750VA		750VA	
Operating Temperature ²	0~40°C							
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	
Safety & EMC	CE							

Cooling : Advanced Fan Cooled

Input AC Power : 100~230 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

Order Information

Optional interface :

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



34206C 600V , 420A , 6KW

34208C 600V , 560A , 8KW

34210C 600V , 700A , 10KW

34212C 600V , 840A , 12KW

Specifications

MODEL	34215C		34218C		34220C		34224C	
Power	15KW		18KW		20KW		24KW	
Current	0 ~ 105A	0 ~ 1050A	0 ~ 126A	0 ~ 1260A	0 ~ 140A	0 ~ 1400A	0 ~ 168A	0 ~ 1680A
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 ¹	105A	1050A	126A	1260A	140A	1400A	168A	1680A
Resolution	1.68mA	16.8mA	2.016mA	20.16mA	2.24mA	22.4mA	2.688mA	26.88mA
Accuracy	± 0.05% of (Setting + Range)							
Constant Resistance Mode								
Range	34260Ω~0.571Ω	0.571Ω~0.0096Ω	28560Ω~0.476Ω	0.476Ω~0.0080Ω	25740Ω~0.429Ω	0.429Ω~0.0072Ω	21420Ω~0.357Ω	0.375Ω~0.0060Ω
Resolution	29.18855μS	9.52μΩ	35.014μS	7.934μΩ	38.85003μS	7.15μΩ	46.68534μS	6.25μΩ
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	2000W	20000W	2400W	24000W
Resolution	24mW	240mW	28.8mW	288mW	32mW	320mW	38.4mW	384mW
Accuracy	± 0.1% of (Setting + Range)							
Constant Voltage Mode + Constant Current Mode								
Range	600V	1050A	600V	1260A	600V	1400A	600V	1680A
Resolution	10mV	16.8mA	10mV	20.16mA	10mV	22.4mA	10mV	26.88mA
Accuracy	± 1.0% of (Setting + Range)							
Constant Voltage Mode + Constant Power Mode								
Range	600V	15000W	600V	18000W	600V	20000W	600V	24000W
Resolution	10mV	240mW	10mV	288mW	10mV	320mW	10mV	384mW
Accuracy	± 1.0% of (Setting + Range)							
MPPT Mode								
Algorithm	P&O							
Load mode	CV							
P&O interval	1000ms~60000ms ; resolution 1ms							
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	0.084A~5.25A/μs	0.84A~52.5A/μs	0.1008A~6.3A/μs	1.008A~63A/μs	0.112A~7A/μs	1.12A~70A/μs	0.1344A~8.4A/μs	1.344A~84A/μs
Resolution	0.021A/μs	0.21A/μs	0.0252A/μs	0.252A/μs	0.028A/μs	0.28A/μs	0.0336A/μs	0.336A/μs
Min. Rise Time	20μs(typical)							
Current								
Range	0~105A	105~1050A	0~126A	126~1260A	0~140A	140~1400A	0~168A	168~1680A
Resolution	1.68mA	16.8mA	2.016mA	20.16mA	2.24mA	22.4mA	2.688mA	26.88mA
Measurement								
Voltage Read Back								
Range (5 Digital)	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
Accuracy	±0.025% of (Reading + Range)							
Current Read Back								
Range (5 Digital)	0~105A	105~1050A	0~126A	126~1260A	0~140A	140~1400A	0~168A	168~1680A
Resolution	1.68mA	16.8mA	2.016mA	20.16mA	2.24mA	22.4mA	2.688mA	26.88mA
Accuracy	± 0.05% of (Reading + Range)							
Power Read Back								
Range (5 Digital)	1500W	15000W	1800W	18000W	2000W	20000W	2400W	24000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy	± 0.075% 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	1100VA		1100VA		1450VA		1450VA	
Operating Temperature ²	0~40°C							
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	
Safety & EMC	CE							

Cooling : Advanced Fan Cooled

Input AC Power : 100~230 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

Order Information

Optional interface :

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



34215C 600V , 1050A , 15KW



34218C 600V , 1260A , 18KW

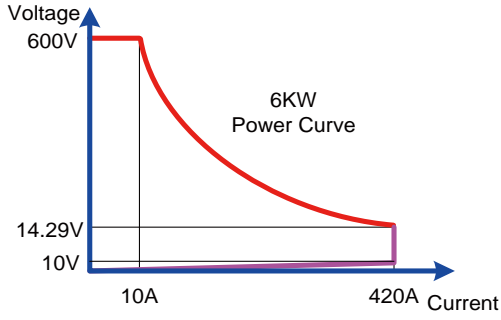


34220C 600V , 1400A , 20KW

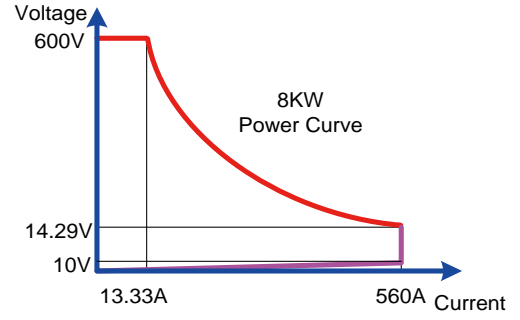


34224C 600V , 1680A , 24KW

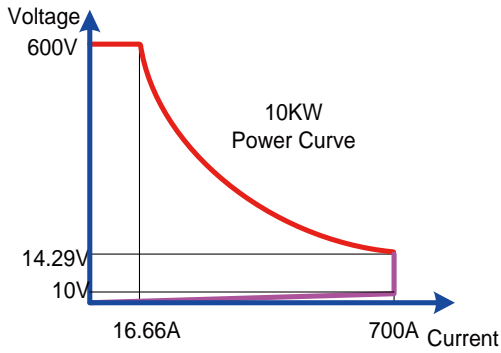
Power Curve



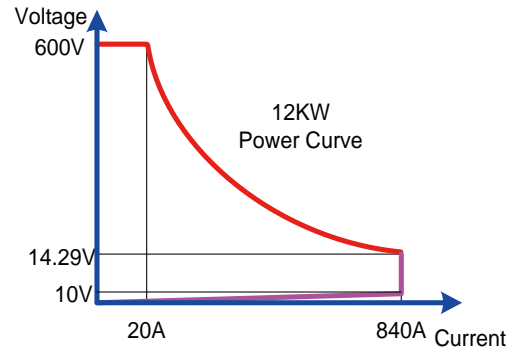
34206C



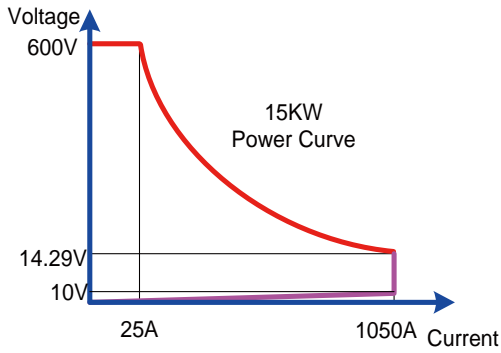
34208C



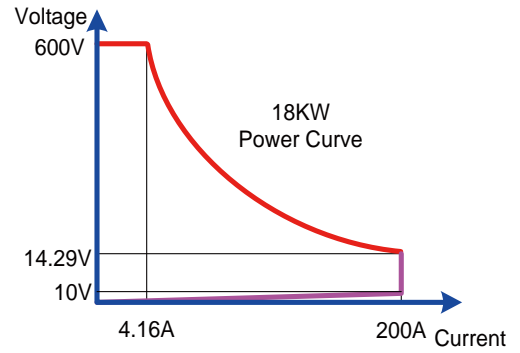
34210C



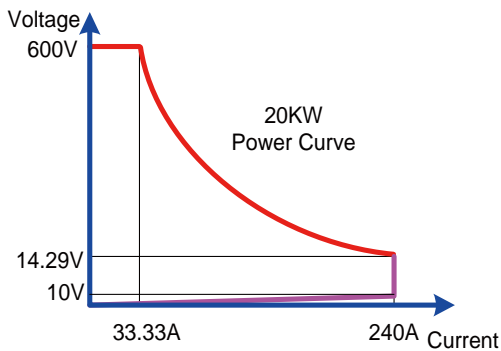
34212C



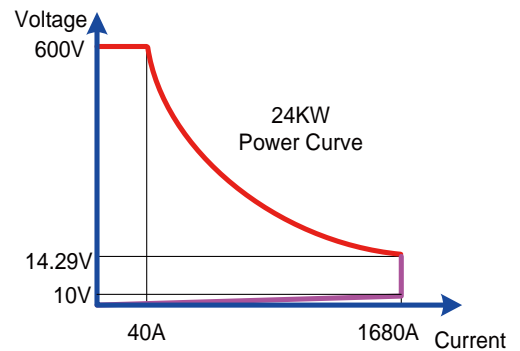
34215C



34218C



34220C



34224C

Specifications

MODEL	34306C		34308C		34310C		34312C	
Power	6KW		8KW		10KW		12KW	
Current	0 ~ 24A	0 ~ 240A	0 ~ 32A	0 ~ 320A	0 ~ 40A	0 ~ 400A	0 ~ 48A	0 ~ 480A
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*1	24A	240A	32A	320A	40A	400A	48A	480A
Resolution	0.384mA	3.84mA	0.512mA	5.12mA	0.64mA	6.4mA	0.768mA	7.68mA
Accuracy	± 0.05% of (Setting + Range)							
Constant Resistance Mode								
Range	30KΩ~5Ω	5Ω~0.0625Ω	22.5KΩ~3.75Ω	3.75Ω~0.0469Ω	18KΩ~3Ω	3Ω~0.0375Ω	15KΩ~2.5Ω	2.5Ω~0.0313Ω
Resolution	3.333μS	83.334μΩ	4.444μS	62.5μΩ	5.5555μS	50μΩ	6.6666μS	41.667μΩ
Accuracy	±0.2% of (Setting + Range)							
Constant Voltage Mode								
Range	1200V							
Resolution	19.2mV							
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)							
Constant Voltage Mode + Constant Current Mode								
Range	1200V	240A	1200V	320A	1200V	400A	1200V	480A
Resolution	19.2mV	3.84mA	19.2mV	5.12mA	19.2mV	6.4mA	19.2mV	7.68mA
Accuracy	± 1.0% of (Setting + Range)							
Constant Voltage Mode + Constant Power Mode								
Range	1200V	6000W	1200V	8000W	1200V	10000W	1200V	12000W
Resolution	19.2mV	96mW	19.2mV	128mW	19.2mV	160mW	19.2mV	192mW
Accuracy	± 1.0% of (Setting + Range)							
MPPT Mode								
Algorithm	P&O							
Load mode	CV							
P&O interval	1000ms~6000ms ; resolution 1ms							
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	0.0256A~1.6A/μs	0.256A~16A/μs	0.032A~2A/μs	0.32A~20A/μs	0.0384A~2.4A/μs	0.384A~24A/μs
Resolution	0.0048A/μs	0.048A/μs	0.0064A/μs	0.064A/μs	0.008A/μs	0.08A/μs	0.0096A/μs	0.096A/μs
Min. Rise Time	20μs(typical)							
Current								
Range	0~24A	24~240A	0~32A	32~320A	0~40A	40~400A	0~48A	48~480A
Resolution	0.384mA	3.84mA	0.512mA	5.12mA	0.64mA	6.4mA	0.768mA	7.68mA
Measurement								
Voltage Read Back								
Range (5 Digital)	0~120V	120~1200V	0~120V	120~1200V	0~120V	120~1200V	0~120V	120~1200V
Resolution	1.92mV	19.2mV	1.92mV	19.2mV	1.92mV	19.2mV	1.92mV	19.2mV
Accuracy	±0.025% of (Reading + Range)							
Current Read Back								
Range (5 Digital)	0~24A	24~240A	0~32A	32~320A	0~40A	40~400A	0~48A	48~480A
Resolution	0.384mA	3.84mA	0.512mA	5.12mA	0.64mA	6.4mA	0.768mA	7.68mA
Accuracy	±0.05% of (Reading + Range)							
Power Read Back								
Range (5 Digital)	600W	6000W	800W	8000W	1000W	10000W	1200W	12000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy	±0.075% of (Reading + Range)							
General								
Typical Short Resistance	0.0625Ω		0.0469Ω		0.0375Ω		0.0313Ω	
Maximum Short Current	240A		320A		400A		480A	
Load ON Voltage	0.96 ~ 240V							
Load OFF Voltage	0 ~ 240V							
Power Consumption	400VA		750VA		750VA		750VA	
Operating Temperature*2	0~40°C							
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	
Safety & EMC	CE							

Cooling : Advanced Fan Cooled

Input AC Power : 100~230 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

Order Information

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	15KW		18KW		20KW		24KW	
Current	0 ~ 60A	0 ~ 600A	0 ~ 72A	0 ~ 720A	0 ~ 80A	0 ~ 800A	0 ~ 96A	0 ~ 960A
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 ¹	60A	600A	72A	720A	80A	800A	96A	960A
Resolution	0.96mA	9.6mA	1.152mA	11.52mA	1.28mA	12.8mA	1.536mA	15.36mA
Accuracy	± 0.05% of (Setting + Range)							
Constant Resistance Mode								
Range	12Ω~2Ω	2Ω~ 0.0250Ω	10KΩ~1.666Ω	1.666Ω~0.0209Ω	9KΩ~1.5Ω	1.5Ω~0.0188Ω	7.5KΩ~1.25Ω	1.25Ω~0.0157Ω
Resolution	8.3333μS	33.334μΩ	10μS	27.77μΩ	11.111μS	25μΩ	13.333μS	20.834μΩ
Accuracy	±0.2% of (Setting + Range)							
Constant Voltage Mode								
Range	1200V							
Resolution	19.2mV							
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)							
Constant Voltage Mode + Constant Current Mode								
Range	1200V	600A	1200V	720A	1200V	800A	1200V	960A
Resolution	19.2mV	9.6mA	19.2mV	11.52mA	19.2mV	12.8mA	19.2mV	15.36mA
Accuracy	± 1.0% of (Setting + Range)							
Constant Voltage Mode + Constant Power Mode								
Range	1200V	15000W	1200V	18000W	1200V	20000W	1200V	24000W
Resolution	19.2mV	240mW	19.2mV	288mW	19.2mV	320mW	19.2mV	384mW
Accuracy	± 1.0% of (Setting + Range)							
MPPT Mode								
Algorithm	P&O							
Load mode	CV							
P&O interval	1000ms~6000ms ; resolution 1ms							
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	0.048A~3A/μs	0.48A~30A/μs	0.0576A~3.6A/μs	0.576A~36A/μs	0.064A~4A/μs	0.64A~40A/μs	0.0768A~4.8A/μs	0.768A~48A/μs
Resolution	0.012A/μs	0.12A/μs	0.0144A/μs	0.144A/μs	0.016A/μs	0.16A/μs	0.0192A/μs	0.192A/μs
Min. Rise Time	20μs(typical)							
Current								
Range	0~60A	60~600A	0~72A	72~720A	0~80A	80~800A	0~96A	96~960A
Resolution	0.96mA	9.6mA	1.152mA	11.52mA	1.28mA	12.8mA	1.536mA	15.36mA
Measurement								
Voltage Read Back								
Range (5 Digital)	0~120V	120~1200V	0~120V	120~1200V	0~120V	120~1200V	0~120V	120~1200V
Resolution	1.92mV	19.2mV	1.92mV	19.2mV	1.92mV	19.2mV	1.92mV	19.2mV
Accuracy	±0.025% of (Reading + Range)							
Current Read Back								
Range (5 Digital)	0~60A	60~600A	0~72A	72~720A	0~80A	80~800A	0~96A	96~960A
Resolution	0.96mA	9.6mA	1.152mA	11.52mA	1.28mA	12.8mA	1.536mA	15.36mA
Accuracy	±0.05% of (Reading + Range)							
Power Read Back								
Range (5 Digital)	1500W	15000W	800W	18000W	2000W	20000W	2400W	24000W
Resolution	0.1W	1W	0.1W	1W	0.1W	1W	0.1W	1W
Accuracy	±0.075% 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	1100VA		1100VA		1450VA		1450VA	
Operating Temperature ²	0~40°C							
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	
Safety & EMC	CE							

Cooling : Advanced Fan Cooled

Input AC Power : 100~230 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

Order Information

Optional interface :

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



34315C 1200V , 600A , 15KW



34318C 1200V , 720A , 18KW

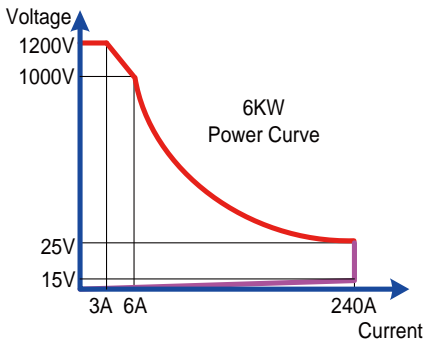
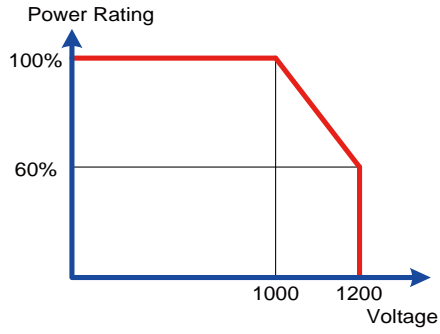


34320C 1200V , 800A , 20KW

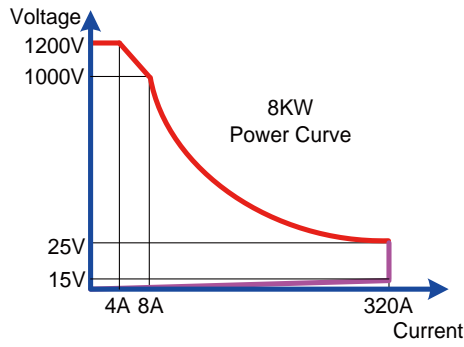


34324C 1200V , 960A , 24KW

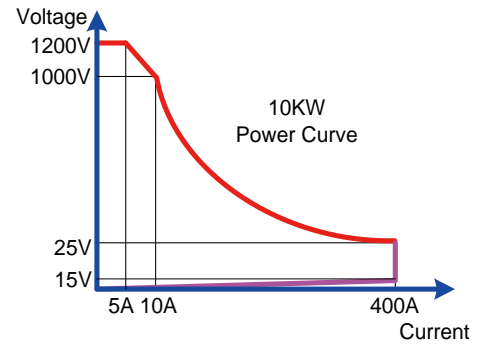
Power Curve



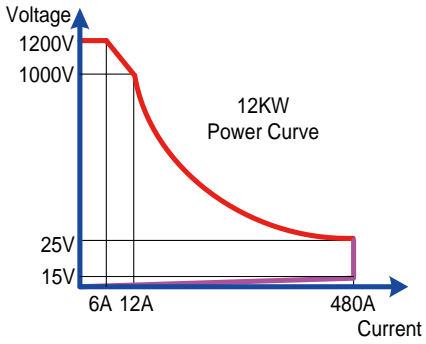
34306C



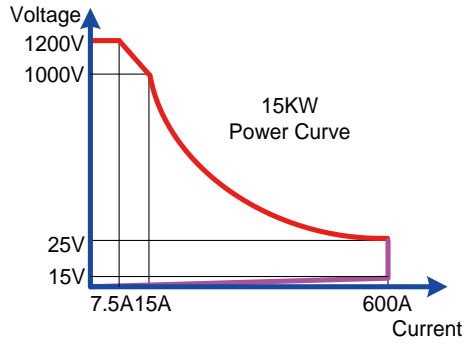
34308C



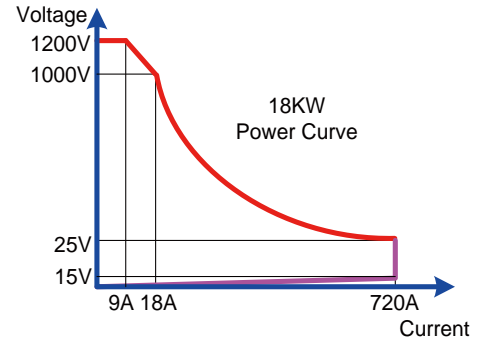
34310C



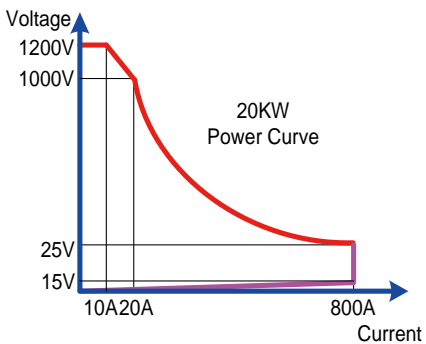
34312C



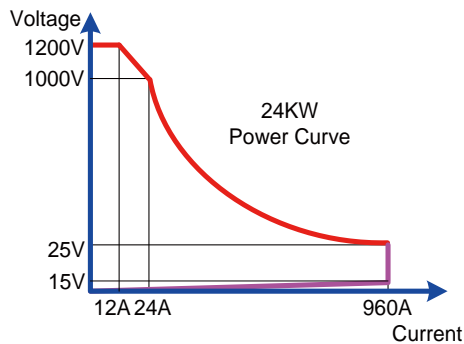
34315C



34318C



34320C



34324C