



# PEL-5000C Series

High Power D.C. Electronic Load

## FEATURES

- Maximum Power up to 192kW
- Up to 8 units of Master/Slave Parallel Control
- 5-digit Digital Voltage, Current and Power Meter
- Large LCD Display
- Display Voltage Value, Current Value, Watt Value at the Same Time
- Suitable for Power Factor Regulator (PFC) Testing (600V, 1200V Models)
- Automatically Perform OCP, OPP Test
- The Power-on State Value Can be Set
- Constant Current, Constant Resistance, Constant Voltage, Constant Power, Constant Current + Constant Voltage, Constant Power + Constant Voltage, Dynamic and Short Circuit Modes
- Short Circuit Time Can be Set During Short Circuit Test
- Over Current, Over Power, Over Temperature Protection and Over Voltage Warning
- Voltage Polarity Display Can be Set to Positive Value ("+" or Negative Value ("-")
- Support Solar Panel MPPT Test
- Optional Interface: GPIB, RS232, USB, LAN

# High Power DC Electronic Load

150V  
600V  
1200V

6kW~  
24kW

24  
Models  
Type



## PEL-5000C Series



### DESCRIPTIONS

- PEL-5000C 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



# High Power DC Electronic Load

## SPECIFICATIONS

MODEL	PEL-5015C-150-1500	PEL-5018C-150-1800	PEL-5020C-150-2000	PEL-5024C-150-2000
Power <sup>*1</sup>	15kW	18kW	20kW	24kW
Current	0 ~ 150A	0 ~ 1500A	0 ~ 180A	0 ~ 1800A
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 <sup>*2</sup>	150A	1500A	180A	1800A
Resolution	2.4mA	24mA	2.88mA	28.8mA
Accuracy <sup>*3</sup>				± 0.05% of (Setting + Range)
Constant Resistance Mode				
Range	6000Ω~0.1Ω	0.1Ω~0.0005Ω	5000Ω~0.0833Ω	0.0833Ω~0.0004Ω
Resolution	166.666μS	1.667μΩ	200μS	1.389μΩ
Accuracy				± 0.2% of (Setting + Range)
Constant Voltage Mode				
Range			150V	
Resolution			2.5mV	
Accuracy			± 0.05% of (Setting + Range)	
Constant Power Mode				
Range	1500W	15000W	1800W	18000W
Resolution	24mW	240mW	28.8mW	288mW
Accuracy	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)
Constant Voltage Mode + Constant Current Mode				
Range	150V	1500A	150V	1800A
Resolution	2.5mV	24mA	2.5mV	28.8mA
Accuracy				± 1.0% of (Setting + Range)
Constant Voltage Mode + Constant Power Mode				
Range	150V	15000W	150V	18000W
Resolution	2.5mV	240mW	2.5mV	288mW
Accuracy				± 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
Resolution	0.009A/μs	0.09A/μs	0.0108A/μs	0.108A/μs
Min. Rise Time				66.7μs(typical)
Current				
Range	0~150A	150~1500A	0~180A	180~1800A
Resolution	2.4mA	24mA	2.88mA	28.8mA
Measurement				
Voltage Read Back				
Range (5 Digital)	0~15V	15~150V	0~15V	15~150V
Resolution	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
Resolution	2.4mA	24mA	2.88mA	28.8mA
Accuracy			± 0.05% of (Reading + Range)	
Power Read Back				
Range (5 Digital)		15000W	18000W	20000W
Accuracy			± 0.06% of (Reading + Range)	24000W
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	1320VA	1320VA	1700VA	1700VA
Dimension (HxWxD)	760.6x481x757.3mm	760.6x481x757.3mm	886.6x481x757.3mm	886.6x481x757.3mm
HxWxD(Not included Rack Mount Kit,wheels)	656.6x445.2x757.3mm	656.6x445.2x757.3mm	782.6x445.2x757.3mm	782.6x445.2x757.3mm
Weight	116.5 kg	124 kg	140.5 kg	155 kg
Temperature <sup>*4</sup>			0~40°C	
Safety & EMC			CE	

Cooling : Advanced Fan Cooled

Input AC Power : 100~240 Vac ±10%, 50/60Hz, Single-phase

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 : Operating temperature range is 0~40 °C • all specifications apply for 25 °C±5°C

## ORDER INFORMATION

PEL-5015C-150-1500

PEL-5018C-150-1800

PEL-5020C-150-2000

PEL-5024C-150-2000



150V , 1500A , 15kW



150V , 1800A , 18kW



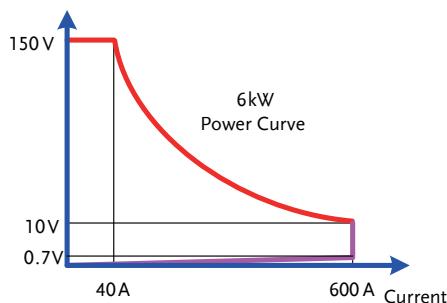
150V , 2000A , 20kW



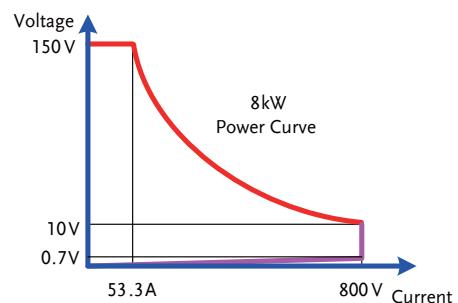
150V , 2000A , 24kW

# High Power DC Electronic Load

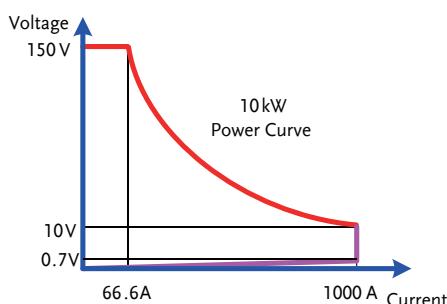
## Power Curve



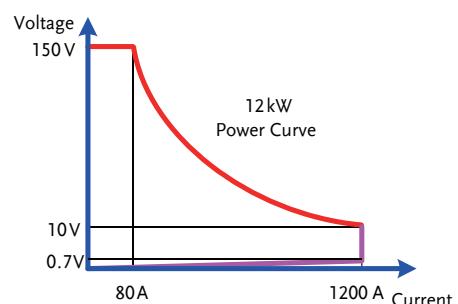
PEL-5006C-150-600



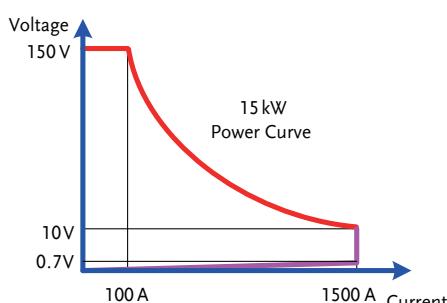
PEL-5008C-150-800



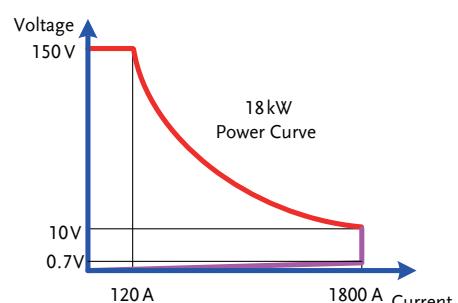
PEL-5010C-150-1000



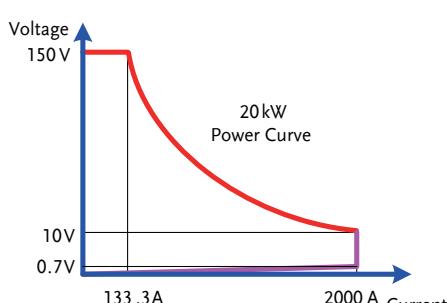
PEL-5012C-150-1200



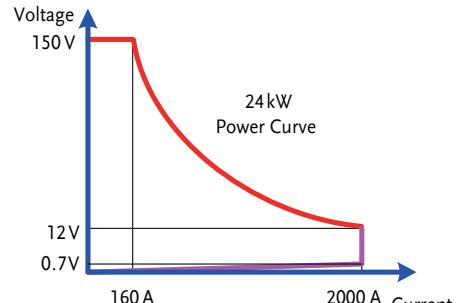
PEL-5015C-150-1500



PEL-5018C-150-1800



PEL-5020C-150-2000



PEL-5024C-150-2000

# High Power DC Electronic Load

SPECIFICATIONS								
MODEL	PEL-5006C-600-420	PEL-5008C-600-560	PEL-5010C-600-700	PEL-5012C-600-840				
<b>Power<sup>*1</sup></b>	6kW	8kW	10kW	12kW				
<b>Current</b>	0 ~ 42A	0 ~ 420A	0 ~ 56A	0 ~ 560A	0 ~ 70A	0 ~ 700A	0 ~ 84A	0 ~ 840A
<b>Voltage</b>				0 ~ 600V				
<b>Min. Operating Voltage</b>	10V @ 420A	10V @ 560A	10V @ 700A	10V @ 840A				
<b>Protections</b>								
Over Power Protection (OPP)			105%					
Over Current Protection (OCP)			104%					
Over Voltage Protection (OVP)			105%					
Over Temp Protection (OTP)			90 °C±5°C					
<b>Constant Current Mode</b>								
<b>Range<sup>*2</sup></b>	42A	420A	56A	560A	70A	700A	84A	840A
<b>Resolution</b>	0.672mA	6.72mA	0.896mA	8.96mA	1.12mA	11.2mA	1.334mA	13.44mA
<b>Accuracy<sup>*3</sup></b>			± 0.05% of (Setting + Range)					
<b>Constant Resistance Mode</b>								
<b>Range</b>	85712Ω~1.42853Ω	1.42853Ω~0.02384Ω	64284Ω~1.0714Ω	1.0714Ω~0.01788Ω	51427.2Ω~0.85712Ω	0.85712Ω~0.014304Ω	42856Ω~0.714267Ω	0.714267Ω~0.01192Ω
<b>Resolution</b>	11.6669μS	23.84μΩ	15.5559μS	17.88μΩ	19.4449μS	14.304μΩ	23.3339μS	11.92μΩ
<b>Accuracy</b>			±0.2% of (Setting + Range)					
<b>Constant Voltage Mode</b>								
<b>Range</b>				600V				
<b>Resolution</b>				10mV				
<b>Accuracy</b>			± 0.05% of (Setting + Range)					
<b>Constant Power Mode</b>								
<b>Range</b>	600W	6000W	800W	8000W	1000W	10000W	1200W	12000W
<b>Resolution</b>	9.6mW	96mW	12.8mW	128mW	16mW	160mW	19.2mW	192mW
<b>Accuracy</b>	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)
<b>Constant Voltage Mode + Constant Current Mode</b>								
<b>Range</b>	600V	420A	600V	560A	600V	700A	600V	840A
<b>Resolution</b>	10mV	6.72mA	10mV	8.96mA	10mV	11.2mA	10mV	13.44mA
<b>Accuracy</b>			± 1.0% of (Setting + Range)					
<b>Constant Voltage Mode + Constant Power Mode</b>								
<b>Range</b>	600V	6000W	600V	8000W	600V	10000W	600V	12000W
<b>Resolution</b>	10mV	96mW	10mV	128mW	10mV	160mW	10mV	192mW
<b>Accuracy</b>			± 1.0% of (Setting + Range)					
<b>Surge Test</b>								
<b>Surge &amp; Normal current</b>	0~420A	0~560A	0~700A	0~840A				
<b>Surge time</b>	10~1000ms	10~1000ms	10~1000ms	10~1000ms				
<b>Surge step</b>			1~5					
<b>MPPT Mode</b>								
<b>Algorithm</b>		P&O						
<b>Load mode</b>		CV						
<b>P&amp;O interval</b>		1000ms~6000ms ; resolution 1000ms						
<b>Dynamic Mode</b>								
<b>Timing</b>								
<b>Thigh &amp; Tlow</b>			0.010~9.999 / 99.99 / 999.9 / 9999ms					
<b>Resolution</b>			0.001 / 0.01 / 0.1 / 1ms					
<b>Accuracy</b>			1μs / 10μs / 100μs / 1ms + 50ppm					
<b>Slew Rate</b>	0.0288~1.8A/μs	0.288A~18A/μs	0.0288A~1.8A/μs	0.288A~18A/μs	0.0336A~2.1A/μs	0.336A~21A/μs	0.0384A~2.4/μs	0.384A~24A/μs
<b>Resolution</b>	0.0072A/μs	0.072A/μs	0.0072A/μs	0.072A/μs	0.0084A/μs	0.084A/μs	0.0096A/μs	0.096A/μs
<b>Current</b>								
<b>Range</b>	0~42A	42~420A	0~56A	56~560A	0~70A	70~700A	0~84A	84~840A
<b>Resolution</b>	0.672mA	6.72mA	0.896mA	8.96mA	1.12mA	11.2mA	1.334mA	13.34mA
<b>Measurement</b>								
<b>Voltage Read Back</b>								
<b>Range (5 Digital)</b>	0~60V	60~600V	0~60V	60~600V	0~60V	60~600V	0~60V	60~600V
<b>Resolution</b>	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV
<b>Accuracy</b>			±0.025% of (Reading + Range)					
<b>Current Read Back</b>								
<b>Range (5 Digital)</b>	0~42A	42~420A	0~56A	56~560A	0~70A	70~700A	0~84A	84~840A
<b>Resolution</b>	0.672mA	6.72mA	0.896mA	8.96mA	1.12mA	11.2mA	1.334mA	13.34mA
<b>Accuracy</b>			±0.05% of (Reading + Range)					
<b>Power Read Back</b>								
<b>Range (5 Digital)</b>	6000W	8000W	10000W	12000W				
<b>Accuracy</b>			± 0.06% of (Reading + Range)					
<b>General</b>								
<b>Typical Short Resistance</b>	0.0239Ω	0.0179Ω	0.0143Ω	0.00120Ω				
<b>Maximum Short Current</b>	420A	560A	700A	840A				
<b>Load ON Voltage</b>			0.4 ~ 100V					
<b>Load OFF Voltage</b>			0 ~ 100V					
<b>Power Consumption</b>	510VA	920VA	920VA	920VA				
<b>Dimension (HxWxD)</b>	445.6x481x757.3mm	571.6x481x757.3mm	571.6x481x757.3mm	571.6x481x757.3mm				
HxWxD (Not included Rack Mount Kit,wheels)	341.6x445.2x757.3mm	467.6x445.2x757.3mm	467.6x445.2x757.3mm	467.6x445.2x757.3mm				
<b>Weight</b>	62 kg	77.5 kg	84.8 kg	92 kg				
<b>Temperature<sup>*4</sup></b>			0~40°C					
<b>Safety &amp; EMC</b>			CE					

Cooling : Advanced Fan Cooled

Input AC Power : 100~240 Vac ±10%, 50/60Hz, Single-phase

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

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

## ORDER INFORMATION

PEL-5006C-600-420

PEL-5008C-600-560

PEL-5010C-600-700

PEL-5012C-600-840



600V , 420A , 6kW



600V , 560A , 8kW



600V , 700A , 10kW



600V , 840A , 12kW

# High Power DC Electronic Load

SPECIFICATIONS							
MODEL	PEL-5015C-600-1050	PEL-5018C-600-1260	PEL-5020C-600-1400	PEL-5024C-600-1680			
Power <sup>*1</sup>	15kW	18kW	20kW	24kW			
Current	0 ~ 105A	0 ~ 1050A	0 ~ 126A	0 ~ 1260A	0 ~ 140A	0 ~ 1400A	0 ~ 168A
Voltage				0 ~ 600V			0 ~ 1680A
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 <sup>*2</sup>	105A	1050A	126A	1260A	140A	1400A	168A
Resolution	1.68mA	16.8mA	2.016mA	20.16mA	2.24mA	22.4mA	2.688mA
Accuracy <sup>*3</sup>				± 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	25713.6~0.42856Ω	0.42856~0.007152Ω	21428~0.357133Ω
Resolution	29.1674μS	9.536μΩ	35.0009μS	7.947μΩ	38.8899μS	7.152μΩ	46.6679μS
Accuracy				± 0.2% of (Setting + Range)			5.96μΩ
Constant Voltage Mode							
Range				600V			
Resolution				10mV			
Accuracy				± 0.05% of (Setting + Range)			
Constant Power Mode							
Range	1500W	15000W	1800W	18000W	2000W	20000W	2400W
Resolution	24mW	240mW	28.8mW	288mW	32mW	320mW	38.4mW
Accuracy	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.2% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)
Constant Voltage Mode + Constant Current Mode							
Range	600V	1050A	600V	1260A	600V	1400A	600V
Resolution	10mV	16.8mA	10mV	20.16mA	10mV	22.4mA	10mV
Accuracy				± 1.0% of (Setting + Range)			26.88mA
Constant Voltage Mode + Constant Power Mode							
Range	600V	15000W	600V	18000W	600V	20000W	600V
Resolution	10mV	240mW	10mV	288mW	10mV	320mW	10mV
Accuracy				± 1.0% of (Setting + Range)			384mW
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	0.0528A~3.3A/μs	0.528A~33A/μs	0.0576A~3.6A/μs
Resolution	0.0108A/μs	0.108A/μs	0.012A/μs	0.12A/μs	0.0132A/μs	0.132A/μs	0.0144A/μs
Current							0.144A/μs
Range	0~105A	105~1050A	0~126A	126~1260A	0~140A	140~1400A	0~168A
Resolution	1.68mA	16.8mA	2.016mA	20.16mA	2.24mA	22.4mA	2.688mA
Measurement							
Voltage Read Back							
Range (5 Digital)	0~60V	60~600V	0~60V	60~600V	0~60V	60~600V	0~60~600V
Resolution	1mV	10mV	1mV	10mV	1mV	10mV	1mV
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
Resolution	1.68mA	16.8mA	2.016mA	20.16mA	2.24mA	22.4mA	2.688mA
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	0.0096Ω		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)	760.6x481x757.3mm		760.6x481x757.3mm		886.6x481x757.3mm		886.6x481x757.3mm
HxWxD (Not included Rack Mount Kit,wheels)	656.6x445.2x757.3mm		656.6x445.2x757.3mm		782.6x445.2x757.3mm		782.6x445.2x757.3mm
Weight	116.5 kg		124 kg		140.5 kg		155 kg
Temperature <sup>*4</sup>				0~40°C			
Safety & EMC				CE			

Cooling : Advanced Fan Cooled

Input AC Power : 100~240 Vac ±10%, 50/60Hz, Single-phase

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 : Operating temperature range is 0~40 °C · all specifications apply for 25 °C±5 °C

## ORDER INFORMATION

PEL-5015C-600-1050



600V, 1050A, 15kW

PEL-5018C-600-1260



600V, 1260A, 18kW

PEL-5020C-600-1400



600V, 1400A, 20kW

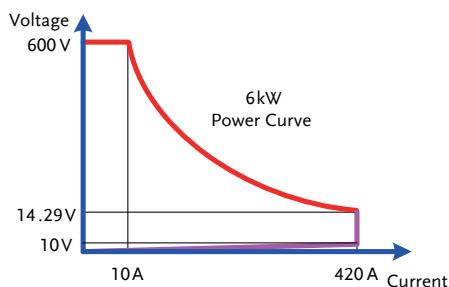
PEL-5024C-600-1680



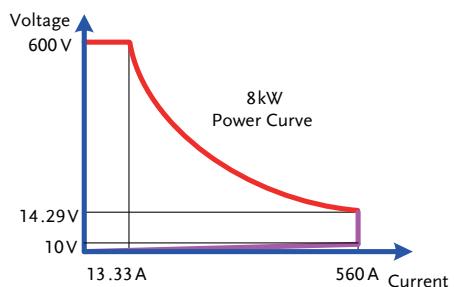
600V, 1680A, 24kW

# High Power DC Electronic Load

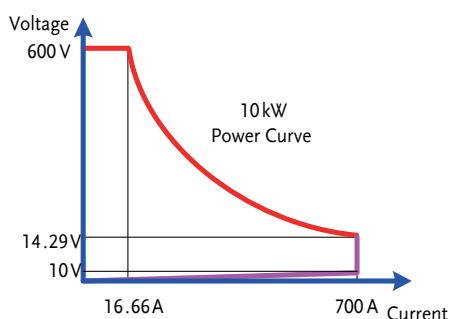
## Power Curve



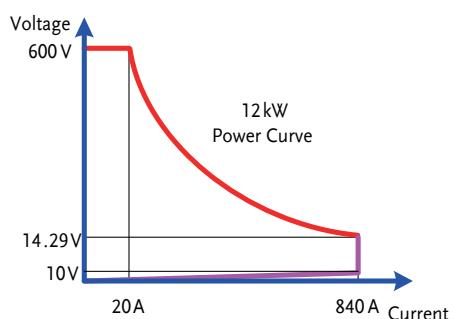
PEL-5006C-600-420



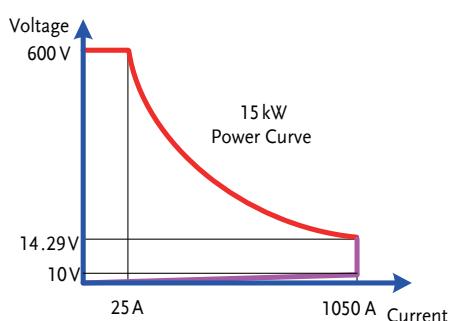
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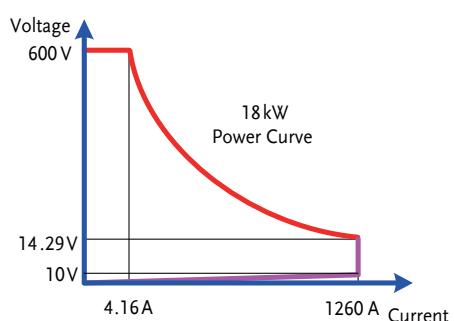
PEL-5010C-600-700



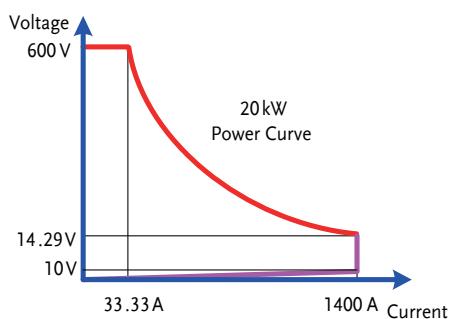
PEL-5012C-600-840



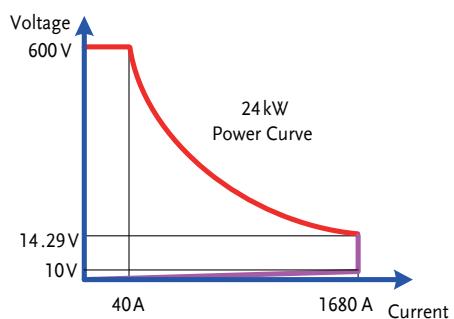
PEL-5015C-600-1050



PEL-5018C-600-1260



PEL-5020C-600-1400



PEL-5024C-600-1680

# High Power DC Electronic Load

## SPECIFICATIONS

MODEL	PEL-5006C-1200-240	PEL-5008C-1200-320	PEL-5010C-1200-400	PEL-5012C-1200-480
Power <sup>*1</sup>	6kW	8kW	10kW	12kW
Current	0 ~ 24A	0 ~ 240A	0 ~ 320A	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 <sup>*2</sup>	24A	240A	32A	320A
Resolution	0.384mA	3.84mA	0.512mA	5.12mA
Accuracy <sup>*3</sup>			± 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				1200V
Range				20mV
Resolution				± 0.05% of (Setting + Range)
Constant Power Mode				
Range	600W	6000W	800W	8000W
Resolution	9.6mW	96mW	12.8mW	128mW
Accuracy	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)
Constant Voltage Mode + Constant Current Mode				
Range	1200V	240A	1200V	320A
Resolution	20mV	3.84mA	20mV	5.12mA
Accuracy			± 1.0% of (Setting + Range)	
Constant Voltage Mode + Constant Power Mode				
Range	1200V	6000W	1200V	8000W
Resolution	20mV	96mW	20mV	128mW
Accuracy			± 1.0% of (Setting + Range)	
Surge Test				
Surge & Normal current	0~240A		0~320A	
Surge time	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
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	
Accuracy			± 0.06% of (Reading + Range)	
General				
Typical Short Resistance	0.0625Ω		0.0469Ω	
Maximum Short Current	240A		400A	
Load ON Voltage			0.96 ~ 240V	
Load OFF Voltage			0 ~ 240V	
Power Consumption	510VA		920VA	
Dimension (HxWxD)	445.6x481x757.3mm		571.6x481x757.3mm	
HxWxD (Not included Rack Mount Kit,wheels)	341.6x445.2x757.3mm		467.6x445.2x757.3mm	
Weight	62 kg		77.5 kg	
Temperature <sup>*4</sup>			0~40°C	
Safety & EMC			CE	

Cooling : Advanced Fan Cooled

Input AC Power : 100~240 Vac ±10%, 50/60Hz, Single-phase

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

## ORDER INFORMATION

PEL-5006C-1200-240



1200V , 240A , 6kW

PEL-5008C-1200-320



1200V , 320A , 8kW

PEL-5010C-1200-400



1200V , 400A , 10kW

PEL-5012C-1200-480

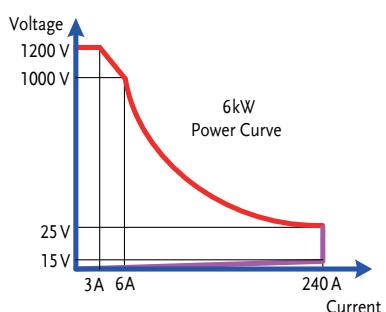
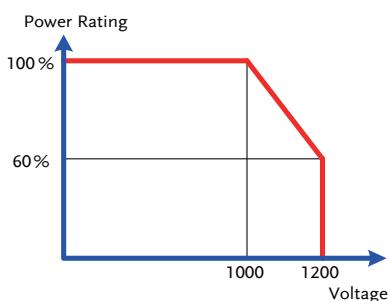


1200V , 480A , 12kW

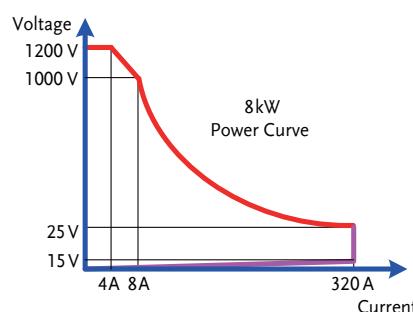


# High Power DC Electronic Load

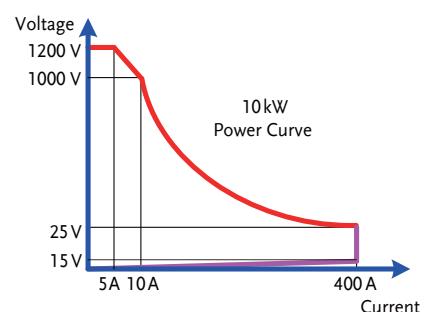
## Power Curve



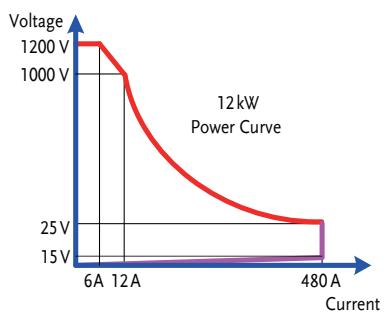
PEL-5006C-1200-240



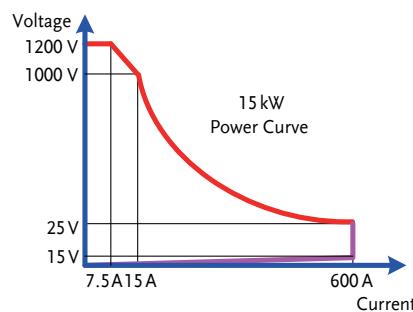
PEL-5008C-1200-320



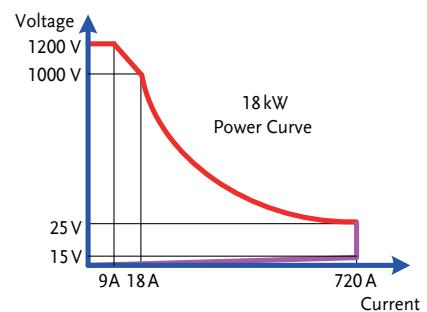
PEL-5010C-1200-400



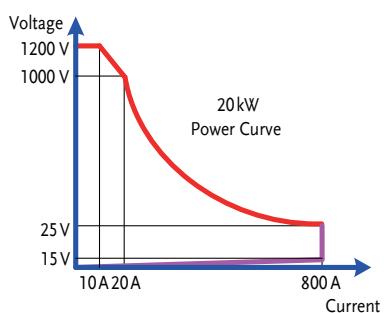
PEL-5012C-1200-480



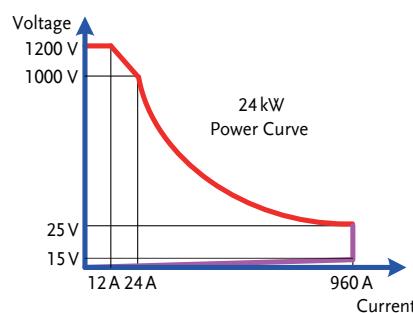
PEL-5015C-1200-600



PEL-5018C-1200-720

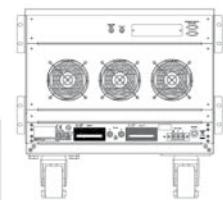
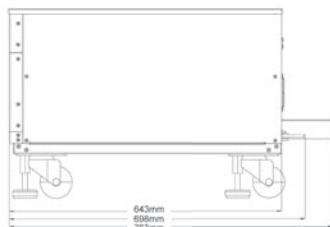
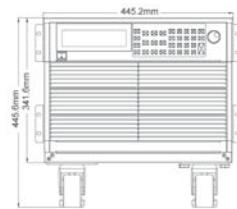


PEL-5020C-1200-800



PEL-5024C-1200-960

## PEL-5000C Series EXTERNAL DIMENSIONS



PEL-022 GPIB Card

PEL-023 RS-232 Card

PEL-024 LAN Card

PEL-025 USB Card

PEL-026

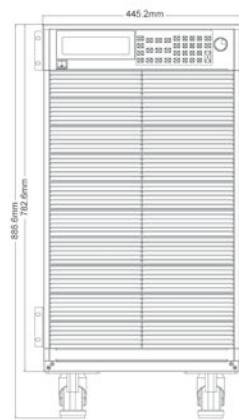
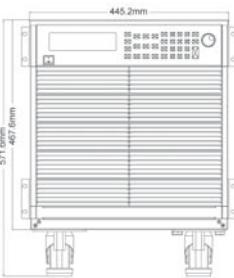
Hook Ring

PEL-027

Rack Mount Kit

PEL-028

Handles



## ORDERING INFORMATION

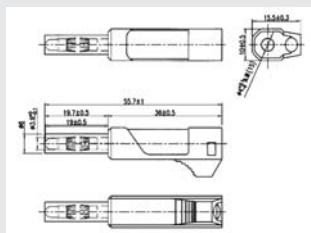
PEL-5006C-150-600	150V/600A/6kW	High Power DC Electronic Load	PEL-5015C-600-1050	600V/1050A/15kW	High Power DC Electronic Load
PEL-5008C-150-800	150V/800A/8kW	High Power DC Electronic Load	PEL-5018C-600-1260	600V/1260A/18kW	High Power DC Electronic Load
PEL-5010C-150-1000	150V/1000A/10kW	High Power DC Electronic Load	PEL-5020C-600-1400	600V/1400A/20kW	High Power DC Electronic Load
PEL-5012C-150-1200	150V/1200A/12kW	High Power DC Electronic Load	PEL-5024C-600-1680	600V/1680A/24kW	High Power DC Electronic Load
PEL-5015C-150-1500	150V/1500A/15kW	High Power DC Electronic Load	PEL-5006C-1200-240	1200V/240A/6kW	High Power DC Electronic Load
PEL-5018C-150-1800	150V/1800A/18kW	High Power DC Electronic Load	PEL-5008C-1200-320	1200V/320A/8kW	High Power DC Electronic Load
PEL-5020C-150-2000	150V/2000A/20kW	High Power DC Electronic Load	PEL-5010C-1200-400	1200V/400A/10kW	High Power DC Electronic Load
PEL-5024C-150-2000	150V/2000A/24kW	High Power DC Electronic Load	PEL-5012C-1200-480	1200V/480A/12kW	High Power DC Electronic Load
PEL-5006C-600-420	600V/420A/6kW	High Power DC Electronic Load	PEL-5015C-1200-600	1200V/600A/15kW	High Power DC Electronic Load
PEL-5008C-600-560	600V/560A/8kW	High Power DC Electronic Load	PEL-5018C-1200-720	1200V/720A/18kW	High Power DC Electronic Load
PEL-5010C-600-700	600V/700A/10kW	High Power DC Electronic Load	PEL-5020C-1200-800	1200V/800A/20kW	High Power DC Electronic Load
PEL-5012C-600-840	600V/840A/12kW	High Power DC Electronic Load	PEL-5024C-1200-960	1200V/960A/24kW	High Power DC Electronic Load

## PEL-5015C-1200-600

Power rating: 15->15kW  
Maximum output current: 600->600A  
Maximum output voltage: 1200->1200V

## STANDARD ACCESSORIES

PEL-5000C Series operation manual  
BANANA PLUGS : Please refer to Fig.1 x 1  
BNC – BNC CABLE : BNC to BNC CABLE, 1m x 1  
HD-DSUB : 15PIN Parallel wire Parallel Wire x 1



## OPTIONAL ACCESSORIES

PEL-022	GPIB Card	PEL-026	Hook Ring	PEL-027-1	Rack Mount Kit For PEL-5006C	GTL-246	USB Cable, USB 2.0, A-B Type, 1200mm
PEL-023	RS-232 Card	PEL-028	HANDLES, U-shaped Handle (fixed to the bracket)	PEL-027-2	Rack Mount Kit For PEL-5008C, PEL-5010C, PEL-5012C	GTL-248	GPIB Cable, Double Shielded, 2000mm
PEL-024	LAN Card	PEL-030	GPIB+RS-232 Card	PEL-027-3	Rack Mount Kit For PEL-5015C, PEL-5018C	GTL-250	GPIB Cable, Double Shielded, 600mm
PEL-025	USB Card			PEL-027-4	Rack Mount Kit For PEL-5020C, PEL-5024C		

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