



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



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^{*1} | 15kW | 18kW | 20kW | 24kW |
| Current | 0 ~ 150A | 0 ~ 1500A | 0 ~ 180A | 0 ~ 200A |
| 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 |
| Resolution | 2.4mA | 24mA | 2.88mA | 28.8mA |
| 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 |
| 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 | |
| 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 | 0.036A~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) | |
| General | | | | |
| Typical Short Resistance | 0.0005Ω | | 0.0004Ω | 0.0004Ω |
| Maximum Short Current | 1500A | | 1800A | |
| Load On Voltage | | | 0.25 ~ 62.5V | |
| Load Off Voltage | | | 0 ~ 62.5V | |
| Power Consumption | 1320VA | | 1320VA | 1700VA |
| Dimension (HxWxD) | 760.6x481x757.3mm | | 760.6x481x757.3mm | 886.6x481x757.3mm |
| HxWxD(Not included Rack Mount Kit,wheels) | 656.6x445.2x757.3mm | | 656.6x445.2x757.3mm | 782.6x445.2x757.3mm |
| Weight | 116.5 kg | | 124 kg | 140.5 kg |
| Temperature^{*4} | | | 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



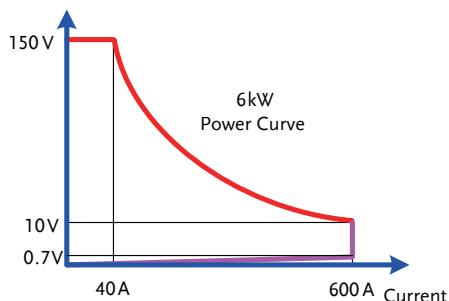
150V , 2000A , 20kW



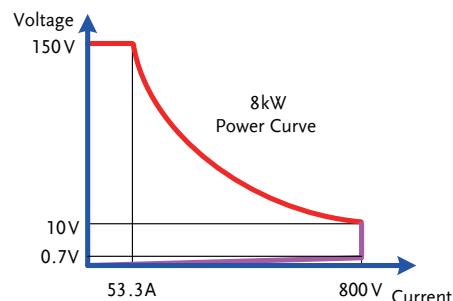
150V , 2000A , 24kW

High Power DC Electronic Load

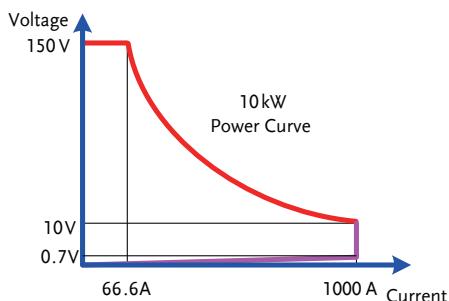
Power Curve



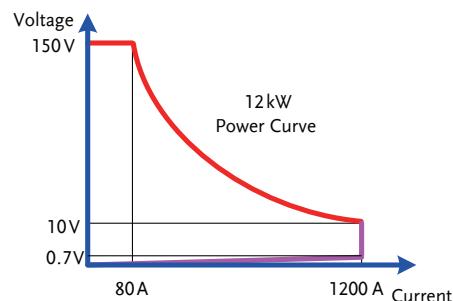
PEL-5006C-150-600



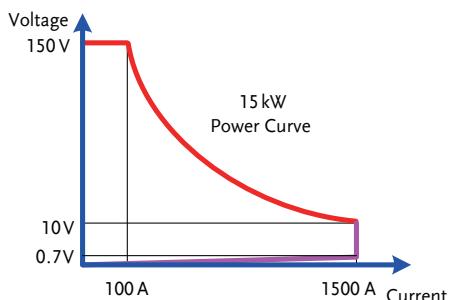
PEL-5008C-150-800



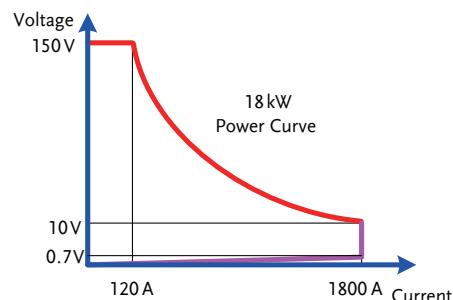
PEL-5010C-150-1000



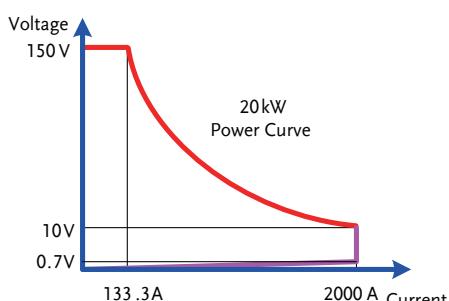
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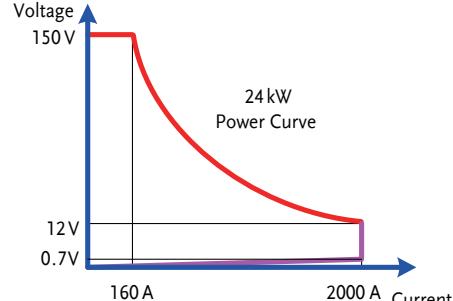
PEL-5015C-150-1500



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 |
|--|---------------------------|---------------------------|--------------------------------------|------------------------------|
| Power^{*1} | 6kW | 8kW | 10kW | 12kW |
| Current | 0 ~ 42A | 0 ~ 420A | 0 ~ 56A | 0 ~ 560A |
| 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 | | | ± 0.05% 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) |
| Constant Voltage Mode + Constant Current Mode | | | | |
| Range | 600V | 420A | 600V | 560A |
| Resolution | 10mV | 6.72mA | 10mV | 8.96mA |
| Accuracy | | | | ± 1.0% of (Setting + Range) |
| Constant Voltage Mode + Constant Power Mode | | | | |
| Range | 600V | 6000W | 600V | 8000W |
| Resolution | 10mV | 96mW | 10mV | 128mW |
| Accuracy | | | | ± 1.0% of (Setting + Range) |
| Surge Test | | | | |
| Surge & Normal current | 0~420A | | 0~560A | |
| 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 | 0.0288~1.8A/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 |
| Current | | | | 0.0084A/μs |
| Range | 0~42A | 42~420A | 0~56A | 56~560A |
| Resolution | 0.672mA | 6.72mA | 0.896mA | 8.96mA |
| Measurement | | | | 1.12mA |
| Voltage Read Back | | | | 11.2mA |
| 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 | | | 1.12mA | 11.2mA |
| Power Read Back | | | | 1.334mA |
| Range (5 Digital) | | 6000W | 8000W | 10000W |
| Accuracy | | | ± 0.06% of (Reading + Range) | 12000W |
| General | | | | |
| Typical Short Resistance | 0.0239Ω | | 0.0179Ω | |
| Maximum Short Current | 420A | | 560A | |
| Load ON Voltage | | | 0.4 ~ 100V | |
| Load OFF Voltage | | | 0 ~ 100V | |
| 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^{*4} | | | 84.8 kg | 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-600-420



600V · 420A · 6kW

PEL-5008C-600-560



600V · 560A · 8kW

PEL-5010C-600-700



600V · 700A · 10kW

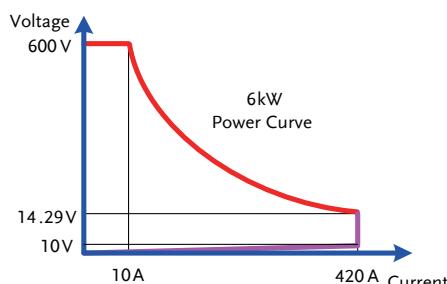
PEL-5012C-600-840



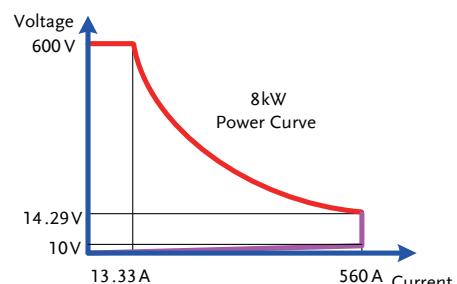
600V · 840A · 12kW

High Power DC Electronic Load

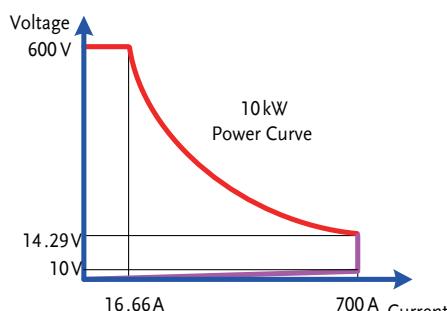
Power Curve



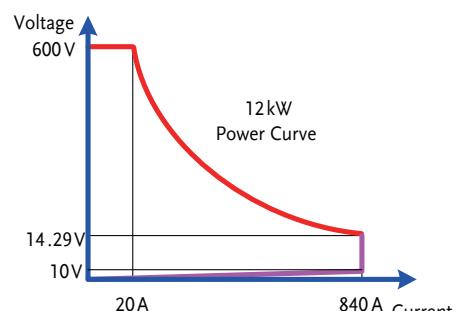
PEL-5006C-600-420



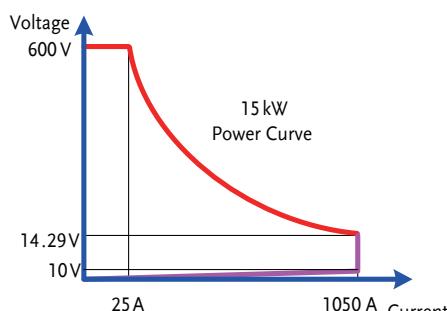
PEL-5008C-600-560



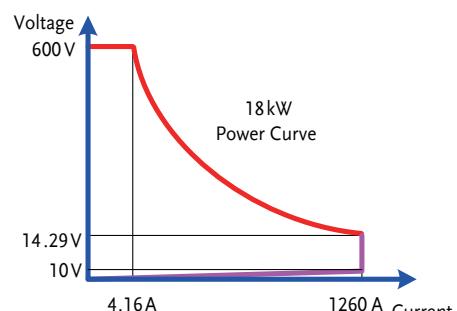
PEL-5010C-600-700



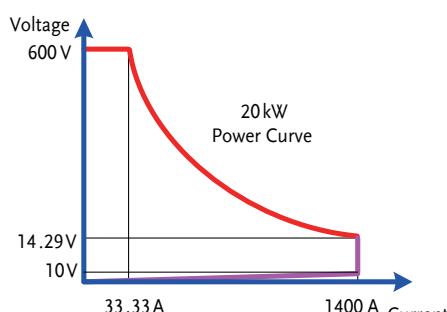
PEL-5012C-600-840



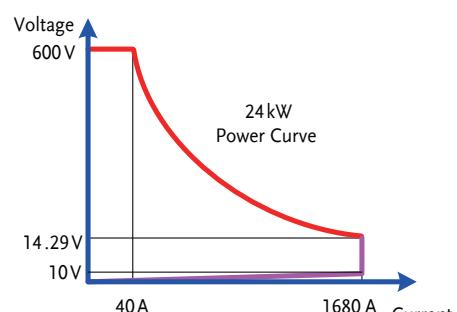
PEL-5015C-600-1050



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 ^{*1} | 6kW | 8kW | 10kW | 12kW |
| Current | 0 ~ 24A | 0 ~ 32A | 0 ~ 40A | 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 | ± 0.05% 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 | | 320A | |
| 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 ^{*4} | | 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

PEL-5008C-1200-320

PEL-5010C-1200-400

PEL-5012C-1200-480



1200V , 240A , 6kW



1200V , 320A , 8kW



1200V , 400A , 10kW



1200V , 480A , 12kW

High Power DC Electronic Load

SPECIFICATIONS

| MODEL | PEL-5015C-1200-600 | PEL-5018C-1200-720 | PEL-5020C-1200-800 | PEL-5024C-1200-960 |
|---|---------------------------|---------------------------|--------------------------------------|------------------------------|
| Power ^{*1} | 15kW | 18kW | 20kW | 24kW |
| Current | 0 ~ 60A | 0 ~ 600A | 0 ~ 72A | 0 ~ 80A |
| Voltage | | | 0 ~ 1200V | 0 ~ 800A |
| 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 | 12Ω~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 | | | | ± 0.05% 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 | 1200V | 600A | 1200V | 720A |
| Resolution | 20mV | 9.6mA | 20mV | 3.2mA |
| Accuracy | | | | ± 1.0% of (Setting + Range) |
| Constant Voltage Mode + Constant Power Mode | | | | |
| Range | 1200V | 15000W | 1200V | 18000W |
| Resolution | 20mV | 240mW | 20mV | 288mW |
| Accuracy | | | | ± 1.0% of (Setting + Range) |
| Surge Test | | | | |
| Surge & Normal current | 0~600A | | 0~720A | |
| 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 | 0.0288A~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 |
| 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 |
| Accuracy | | | | ± 0.06% of (Reading + Range) |
| General | | | | |
| Typical Short Resistance | 0.0250Ω | | 0.0209Ω | |
| Maximum Short Current | 600A | | 720A | 800A |
| Load ON Voltage | | | | 0.96 ~ 240V |
| Load OFF Voltage | | | | 0 ~ 240V |
| Power Consumption | 1320VA | | 1320VA | 1700VA |
| Dimension (HxWxD) | 760.6x481x757.3mm | | 760.6x481x757.3mm | 886.6x481x757.3mm |
| HxWxD (Not included Rack Mount Kit,wheels) | 656.6x445.2x757.3mm | | 656.6x445.2x757.3mm | 782.6x445.2x757.3mm |
| Weight | 116.5 kg | | 124 kg | 140.5 kg |
| Temperature ^{*4} | | | | 0~40°C |
| Safety & EMC | | | | CE |

Cooling : Advanced Fan Cooled

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

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

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-1200-600

PEL-5018C-1200-720

PEL-5020C-1200-800

PEL-5024C-1200-960



1200V, 600A, 15kW



1200V, 720A, 18kW



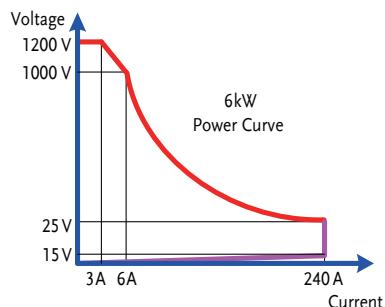
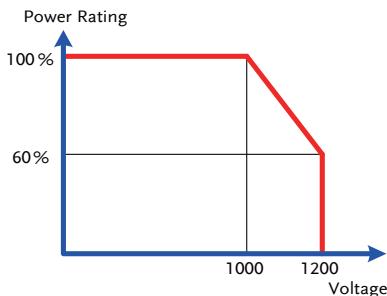
1200V, 800A, 20kW



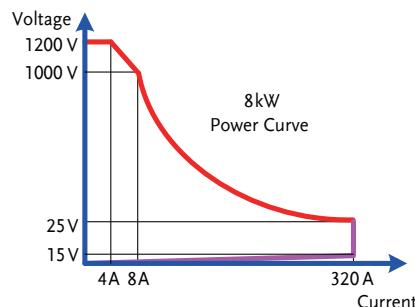
1200V, 960A, 24kW

High Power DC Electronic Load

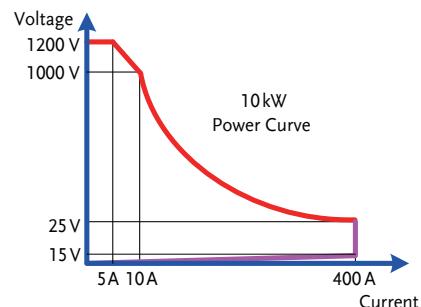
Power Curve



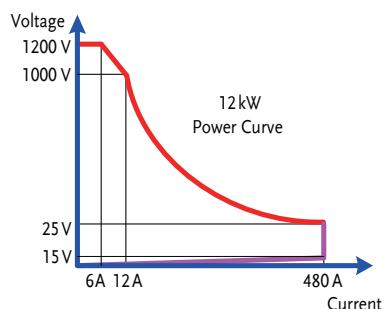
PEL-5006C-1200-240



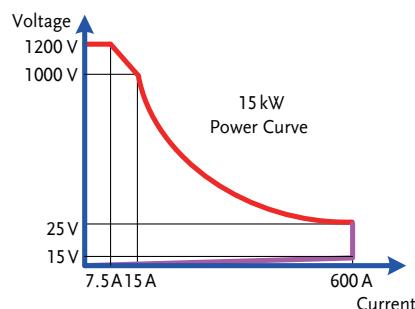
PEL-5008C-1200-320



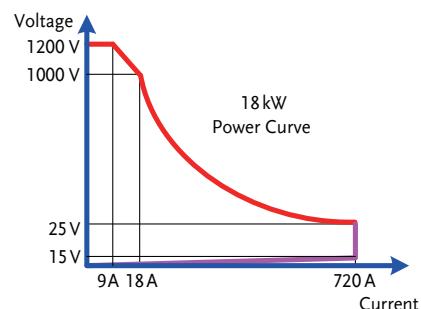
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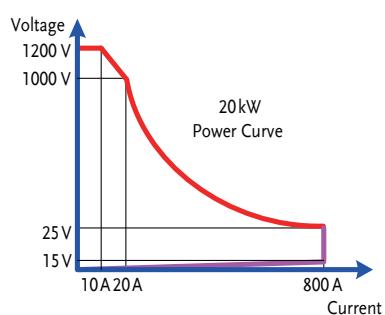
PEL-5012C-1200-480



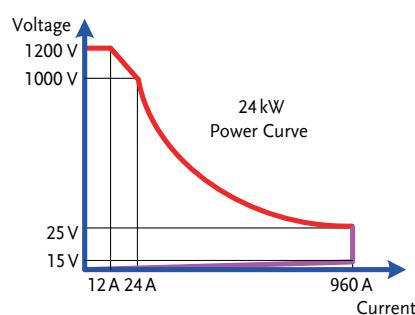
PEL-5015C-1200-600



PEL-5018C-1200-720

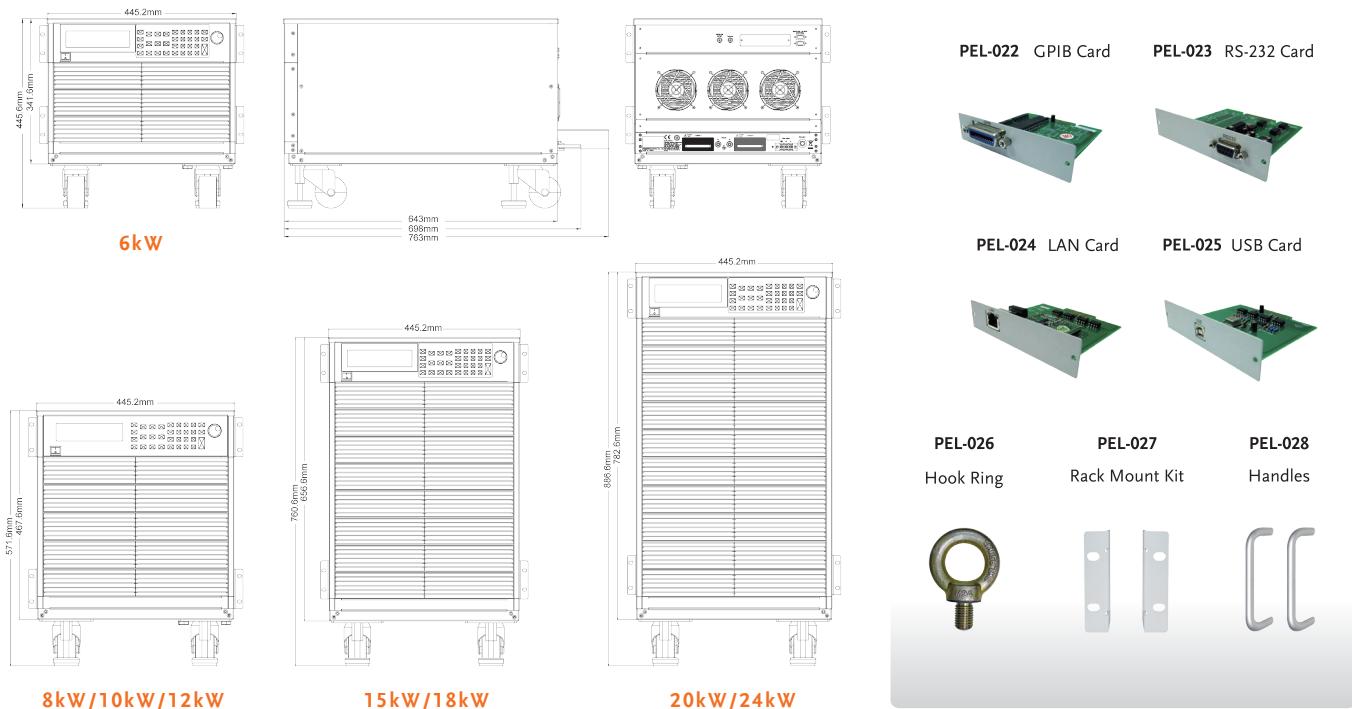


PEL-5020C-1200-800



PEL-5024C-1200-960

PEL-5000C Series EXTERNAL DIMENSIONS



ORDERING INFORMATION

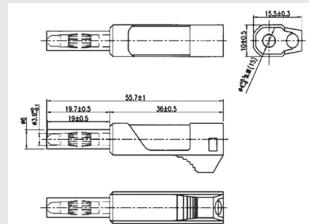
| | | | | | |
|--------------------|-----------------|-------------------------------|--------------------|-----------------|-------------------------------|
| PEL-5006C-150-600 | 150V/600A/6kW | High Power DC Electronic Load | PEL-5015C-600-1050 | 600V/1050A/15kW | High Power DC Electronic Load |
| 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 x 4 | PEL-027-1 | Rack Mount Kit For PEL-5006C |
| 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 |
| PEL-024 | LAN Card | PEL-030 | GPIB+RS-232 Card | PEL-027-3 | Rack Mount Kit For PEL-5015C, PEL-5018C |
| 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.

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