

PEL-5000C 系列

超高功率直流電子負載

特　點

- 最大功率可達 192KW
- 最高達 8 台主/從並聯控制
- 5位數之數位電壓、電流以及功率錶
- 高速量測及通訊傳輸速率
- 大型 LCD Display、可用飛梭旋鈕或按鍵調整設定值
- 可同時顯示電壓值、電流值、瓦特值
- 適用於功率因數調整器(PFC)測試用（600V,1200V機種）
- 可自動執行OCP、OPP測試
- 可設定開機狀態值
- 定電流、定電阻、定電壓、定功率、定電流 + 定電壓、定功率 + 定電壓、動態及短路模式
- 於短路測試時可設定短路時間
- 過電流、功率、溫度保護及過電壓示警
- 電壓極性顯示可設成正值（"+"）或負值（" - "）
- 支援太陽能板MPPT 測試
- 可選用介面：GPIB、RS232、USB、LAN

GW INSTEK
Simply Reliable

超高功率直流電子負載

150V
600V
1200V

8kW～
24kW

24
Models
Type



PEL-5000C 系列

CE RS-232 GPIB USB LAN

說　明

- PEL-5000C系列具有獨立的控制及顯示面板、定電流/定電阻/定電壓/定功率/動態模式，配合面板上的150組儲存/呼叫記憶，能有效地控制所有負載的設定，更可透過RS232、Ethernet、USB和GPIB等介面進行遠端控制。
- 具備短路測試功能及設定短路時間，並可量測短路電壓及電流。
- 在定電流及定功率模式下，可做動態負載之模擬，其電流上升、下降斜率均為獨立可調，另具有-外部輸入任意波形之動態負載功能。
- 具有OCP、OPP單鍵測試功能，使得OCP、OPP之測試更有效率及準確。
- 可設定的吃載/停止吃載(LOAD ON/OFF)電壓點及良/不良(GO/NG)的比較判斷功能、電壓極性顯示可正可負及150組儲存/呼叫記憶，使得負載更適用於各種不同的應用。
- 多達150組測試參數及狀態的儲存功能，讓其可根據自動測試(Auto Sequence)需求，隨時將儲存記憶調出來任意使用。
- 因其耐壓可高達1200V，故而非常適用於功率因數調整器(PFC)的測試應用。
- 主/從控制最多為1個MASTER，7個SLAVE

應　用

- 電壓/電流源測試
- 交換式電源供應器暫態響應
- 定電壓模式供限流測試及模擬電池
- 電池放電
- 研發、品管
- ATE系統
- 生產測試

超高功率直流電子負載

規　格						
MODEL	PEL-5008C-150-800		PEL-5010C-150-1000		PEL-5012C-150-1200	
Power*1	8kW		10kW		12kW	
Current	0 ~ 80A	0 ~ 800A	0 ~ 100A	0 ~ 1000A	0 ~ 120A	0 ~ 1200A
Voltage	0 ~ 150V					
Min. Operating Voltage	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℃±5℃					
Constant Current Mode						
Range*2	80A	800A	100A	1000A	120A	1200A
Resolution	1.28mA	12.8mA	1.6mA	16mA	1.92mA	19.2mA
Accuracy*3	± 0.05% of (Setting + Range)					
Constant Resistance Mode						
Range	11250Ω~0.1875Ω	0.1875Ω~0.0009Ω	9000Ω~0.15Ω	0.15Ω~0.0007Ω	7500Ω~0.125Ω	0.125Ω~0.0006Ω
Resolution	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	± 0.05% of (Setting + Range)					
Constant Power Mode						
Range	800W	8000W	1000W	10000W	1200W	12000W
Resolution	12.8mW	128mW	16mW	160mW	19.2mW	192mW
Accuracy	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)	± 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	800A	150V	1000A	150V	1200A
Resolution	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	8000W	150V	10000W	150V	12000W
Resolution	2.5mV	128mW	2.5mV	160mW	2.5mV	192mW
Accuracy	± 1.0% of (Setting + Range)					
Surge Test						
Surge & Normal current	0~800A		0~1000A		0~1200A	
Surge time	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	0.024A~1.5A/μs	0.24A~15A/μs	0.0288A~1.8A/μs	0.288A~18A/μs
Resolution	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	0~80A	80~800A	0~100A	100~1000A	0~120A	120~1200A
Resolution	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
Resolution	0.25mV	2.5mV	0.25mV	2.5mV	0.25mV	2.5mV
Accuracy	±0.025% of (Reading + Range)					
Current Read Back						
Range (5 Digital)	0~80A	80~800A	0~100A	100~1000A	0~120A	120~1200A
Resolution	1.28mA	12.8mA	1.6mA	16mA	1.92mA	19.2mA
Accuracy	±0.05% of (Reading + Range)					
Power Read Back						
Range (5 Digital)	8000W		10000W		12000W	
Accuracy	± 0.06% of (Reading + Range)					
General						
Typical Short Resistance	0.0009Ω		0.0007Ω		0.0006Ω	
Maximum Short Current	800A		1000A		1200A	
Load ON Voltage	0.25 ~ 62.5V					
Load OFF Voltage	0 ~ 62.5V					
Power Consumption	920VA		920VA		920VA	
Dimension (HxWxD)	571.6x481x757.3mm		571.6x481x757.3mm		571.6x481x757.3mm	
HxWxD (Not included Rack Mount Kit,wheels)	467.6x445.2x757.3mm		467.6x445.2x757.3mm		467.6x445.2x757.3mm	
Weight	77.5 kg		84.8 kg		92 kg	
Temperature*4	0~40℃					
Safety & EMC	CE					

冷卻方式：智慧型風扇冷卻

輸入電源：100~240 Vac ±10%，50/60Hz, Single-phase

註*1：環境溫度=25℃ 時的額定功率規格
註*2：CC Mode 可強制於 RangeII
註*3：如果工作電流低於0.1%範圍，則精度規格為0.1%F.S.
註*4：操作溫度範圍為0~40℃，此規格表內之精確度僅適用於25℃±5℃

訂購方式

PEL-5008C-150-800



150V，800A，8kW

PEL-5010C-150-1000



150V，1000A，10kW

PEL-5012C-150-1200



150V，1200A，12kW

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規　格								
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 ~ 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℃±5℃							
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	± 0.05% 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)	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)	± 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	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)							
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)							
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		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※4	0~40℃							
Safety & EMC	CE							

冷卻方式：智慧型風扇冷卻

輸入電源：100~240 Vac ±10%，50/60Hz, Single-phase

註*1 : 環境溫度=25℃ 時的額定功率規格
註*2 : CC Mode 可強制於 RangeII
註*3 : 如果工作電流低於0.1%範圍，則精度規格為0.1%F.S.
註*4 : 操作溫度範圍為0~40℃，此規格表內之精確度僅適用於25℃±5℃

訂購方式

PEL-5015C-150-1500



150V，1500A，15kW

PEL-5018C-150-1800



150V，1800A，18kW

PEL-5020C-150-2000



150V，2000A，20kW

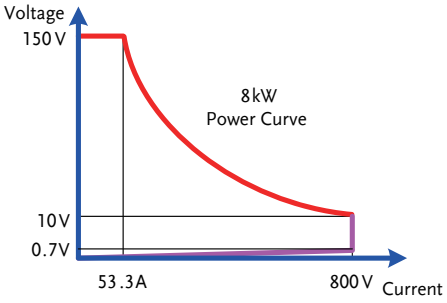
PEL-5024C-150-2000



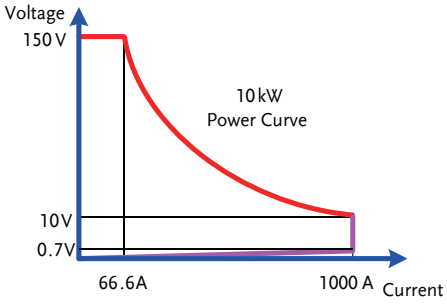
150V，2000A，24kW

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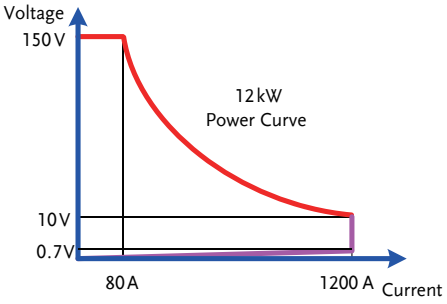
功率曲線



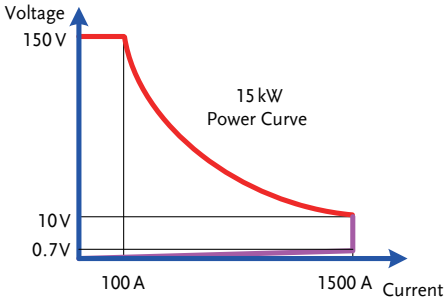
PEL-5008C-150-800



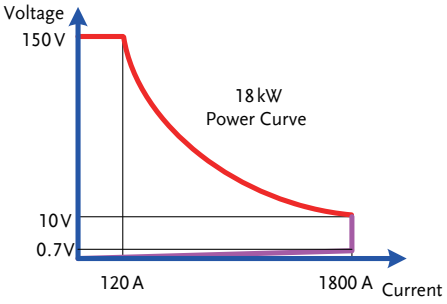
PEL-5010C-150-1000



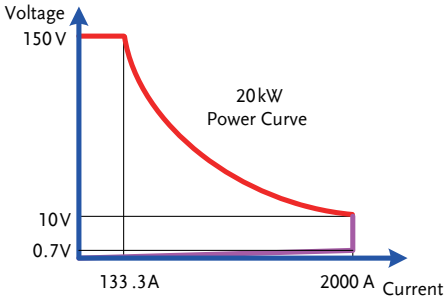
PEL-5012C-150-1200



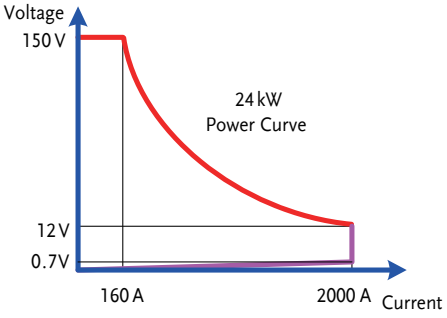
PEL-5015C-150-1500



PEL-5018C-150-1800



PEL-5020C-150-2000



PEL-5024C-150-2000

超高功率直流電子負載

規　格						
MODEL	PEL-5008C-600-560		PEL-5010C-600-700		PEL-5012C-600-840	
Power*1	8kW		10kW		12kW	
Current	0 ~ 56A	0 ~ 560A	0 ~ 70A	0 ~ 700A	0 ~ 84A	0 ~ 840A
Voltage	0 ~ 600V					
Min. Operating Voltage	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℃±5℃					
Constant Current Mode						
Range*2	56A	560A	70A	700A	84A	840A
Resolution	0.896mA	8.96mA	1.12mA	11.2mA	1.334mA	13.44mA
Accuracy*3	± 0.05% of (Setting + Range)					
Constant Resistance Mode						
Range	64284Ω~1.0714Ω	1.0714Ω~0.01788Ω	51427.2Ω~0.85712Ω	0.85712Ω~0.014304Ω	42856Ω~0.714267Ω	0.714267Ω~0.01192Ω
Resolution	15.5559μS	17.88μΩ	19.4449μS	14.304μΩ	23.3339μS	11.92μΩ
Accuracy	±0.2% of (Setting + Range)					
Constant Voltage Mode						
Range	600V					
Resolution	10mV					
Accuracy	± 0.05% of (Setting + Range)					
Constant Power Mode						
Range	800W	8000W	1000W	10000W	1200W	12000W
Resolution	12.8mW	128mW	16mW	160mW	19.2mW	192mW
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)
Constant Voltage Mode + Constant Current Mode						
Range	600V	560A	600V	700A	600V	840A
Resolution	10mV	8.96mA	10mV	11.2mA	10mV	13.44mA
Accuracy	± 1.0% of (Setting + Range)					
Constant Voltage Mode + Constant Power Mode						
Range	600V	8000W	600V	10000W	600V	12000W
Resolution	10mV	128mW	10mV	160mW	10mV	192mW
Accuracy	± 1.0% of (Setting + Range)					
Surge Test						
Surge & Normal current	0~560A		0~700A		0~840A	
Surge time	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	0.0336A~2.1A/μs	0.336A~21A/μs	0.0384A~2.4/μs	0.384A~24A/μs
Resolution	0.0072A/μs	0.072A/μs	0.0084A/μs	0.084A/μs	0.0096A/μs	0.096A/μs
Current						
Range	0~56A	56~560A	0~70A	70~700A	0~84A	84~840A
Resolution	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
Resolution	1mV	10mV	1mV	10mV	1mV	10mV
Accuracy	±0.025% of (Reading + Range)					
Current Read Back						
Range (5 Digital)	0~56A	56~560A	0~70A	70~700A	0~84A	84~840A
Resolution	0.896mA	8.96mA	1.12mA	11.2mA	1.334mA	13.34mA
Accuracy	±0.05% of (Reading + Range)					
Power Read Back						
Range (5 Digital)	8000W		10000W		12000W	
Accuracy	± 0.06% of (Reading + Range)					
General						
Typical Short Resistance	0.0179Ω		0.0143Ω		0.00120Ω	
Maximum Short Current	560A		700A		840A	
Load ON Voltage	0.4 ~ 100V					
Load OFF Voltage	0 ~ 100V					
Power Consumption	920VA		920VA		920VA	
Dimension (HxWxD)	571.6x481x757.3mm		571.6x481x757.3mm		571.6x481x757.3mm	
HxWxD(Not included Rack Mount Kit,wheels)	467.6x445.2x757.3mm		467.6x445.2x757.3mm		467.6x445.2x757.3mm	
Weight	77.5 kg		84.8 kg		92 kg	
Temperature*4	0~40℃					
Safety & EMC	CE					

冷卻方式：智慧型風扇冷卻

輸入電源：100~240 Vac ±10%，50/60Hz, Single-phase

註*1：環境溫度=25℃ 時的額定功率規格
註*2：CC Mode 可強制於 RangeII
註*3：如果工作電流低於0.1%範圍，則精度規格為0.1%F.S.
註*4：操作溫度範圍為0~40℃，此規格表內之精確度僅適用於25℃±5℃

訂購方式

PEL-5008C-600-560



600V，560A，8kW

PEL-5010C-600-700



600V，700A，10kW

PEL-5012C-600-840



600V，840A，12kW

超高功率直流電子負載

規　格								
MODEL	PEL-5015C-600-1050		PEL-5018C-600-1260		PEL-5020C-600-1400		PEL-5024C-600-1680	
Power*1	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*2	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*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	25713.6~0.42856Ω	0.42856~0.007152Ω	21428~0.357133Ω	0.357133~0.00596Ω
Resolution	29.1674μS	9.536μΩ	35.0009μS	7.947μΩ	38.8899μS	7.152μΩ	46.6679μS	5.96μΩ
Accuracy	±0.2% of (Setting + Range)							
Constant Voltage Mode								
Range	600V							
Resolution	10mV							
Accuracy	± 0.05% 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	± 0.2% 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)
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)							
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	0.576A~36A/μs
Resolution	0.0108A/μs	0.108A/μs	0.012A/μs	0.12A/μs	0.0132A/μs	0.132A/μs	0.0144A/μs	0.144A/μs
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)	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*4	0~40°C							
Safety & EMC	CE							

冷卻方式：智慧型風扇冷卻

輸入電源：100~240 Vac ±10%，50/60Hz, Single-phase

註*1 : 環境溫度=25°C 時的額定功率規格
註*2 : CC Mode 可強制於 RangeII
註*3 : 如果工作電流低於0.1%範圍，則精度規格為0.1%F.S.
註*4 : 操作溫度範圍為0~40°C，此規格表內之精確度僅適用於25°C±5°C

訂購方式

PEL-5015C-600-1050



600V，1050A，15kW

PEL-5018C-600-1260



600V，1260A，18kW

PEL-5020C-600-1400



600V，1400A，20kW

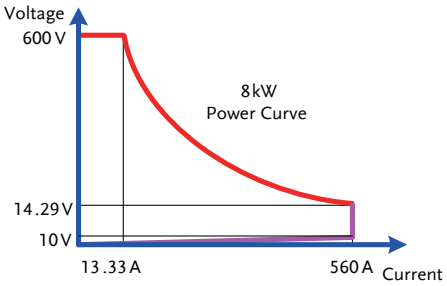
PEL-5024C-600-1680



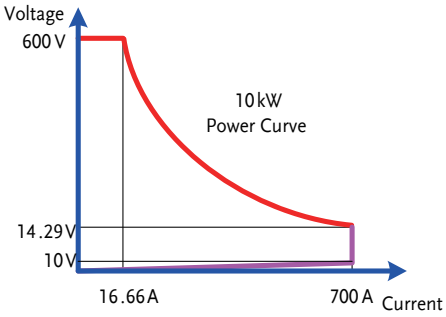
600V，1680A，24kW

超高功率直流電子負載

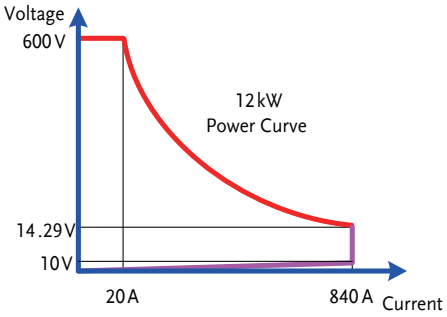
功率曲線



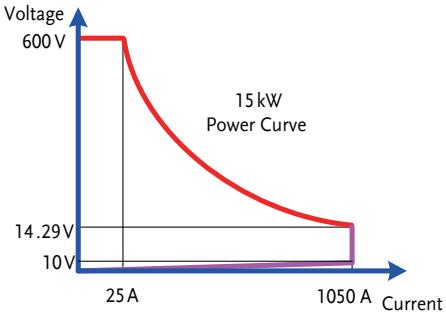
PEL-5008C-600-560



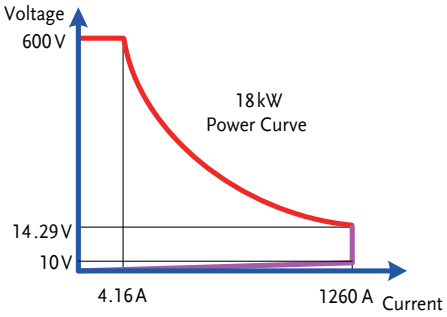
PEL-5010C-600-700



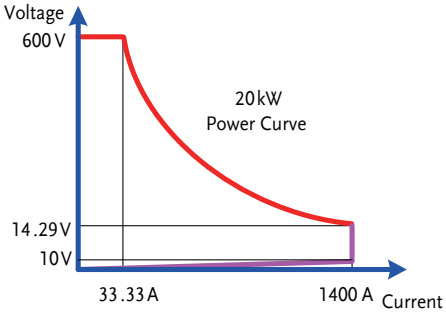
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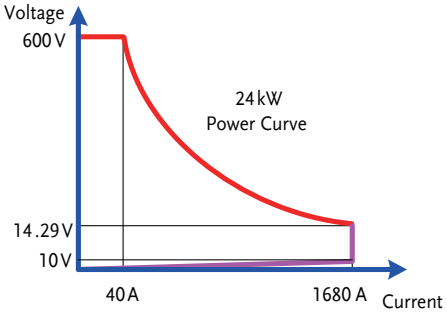
PEL-5015C-600-1050



PEL-5018C-600-1260



PEL-5020C-600-1400



PEL-5024C-600-1680

超高功率直流電子負載

規　格						
MODEL	PEL-5008C-1200-320		PEL-5010C-1200-400		PEL-5012C-1200-480	
Power*1	8kW		10kW		12kW	
Current	0 ~ 32A	0 ~ 320A	0 ~ 40A	0 ~ 400A	0 ~ 48A	0 ~ 480A
Voltage	0 ~ 1200V					
Min. Operating Voltage	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℃±5℃					
Constant Current Mode						
Range*2	32A	320A	40A	400A	48A	480A
Resolution	0.512mA	5.12mA	0.64mA	6.4mA	0.768mA	7.68mA
Accuracy*3	± 0.05% of (Setting + Range)					
Constant Resistance Mode						
Range	22.5KΩ~3.75Ω	3.75Ω~0.0468Ω	18KΩ~3Ω	3Ω~0.0375Ω	15KΩ~2.5Ω	2.5Ω~0.0312Ω
Resolution	4.444μS	62.5μΩ	5.5555μS	50μΩ	6.6666μS	41.667μΩ
Accuracy	±0.2% of (Setting + Range)					
Constant Voltage Mode						
Range	1200V					
Resolution	20mV					
Accuracy	± 0.05% of (Setting + Range)					
Constant Power Mode						
Range	800W	8000W	1000W	10000W	1200W	12000W
Resolution	12.8mW	128mW	16mW	160mW	19.2mW	192mW
Accuracy	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)	± 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	320A	1200V	400A	1200V	480A
Resolution	20mV	5.12mA	20mV	6.4mA	20mV	7.68mA
Accuracy	± 1.0% of (Setting + Range)					
Constant Voltage Mode + Constant Power Mode						
Range	1200V	8000W	1200V	10000W	1200V	12000W
Resolution	20mV	128mW	20mV	160mW	20mV	192mW
Accuracy	± 1.0% of (Setting + Range)					
Surge Test						
Surge & Normal current	0~320A		0~400A		0~480A	
Surge time	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	0.0224A~1.4A/μs	0.224A~14A/μs	0.0256A~1.6A/μs	0.256A~16A/μs
Resolution	0.0048A/μs	0.048A/μs	0.0056A/μs	0.056A/μs	0.0064A/μs	0.064A/μs
Current						
Range	0~32A	32~320A	0~40A	40~400A	0~48A	48~480A
Resolution	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
Resolution	2mV	20mV	2mV	20mV	2mV	20mV
Accuracy	±0.025% of (Reading + Range)					
Current Read Back						
Range (5 Digital)	0~32A	32~320A	0~40A	40~400A	0~48A	48~480A
Resolution	0.512mA	5.12mA	0.64mA	6.4mA	0.768mA	7.68mA
Accuracy	±0.05% of (Reading + Range)					
Power Read Back						
Range (5 Digital)	8000W		10000W		12000W	
Accuracy	± 0.06% of (Reading + Range)					
General						
Typical Short Resistance	0.0469Ω		0.0375Ω		0.0313Ω	
Maximum Short Current	320A		400A		480A	
Load ON Voltage	0.96 ~ 240V					
Load OFF Voltage	0 ~ 240V					
Power Consumption	920VA		920VA		920VA	
Dimension (HxWxD)	571.6x481x757.3mm		571.6x481x757.3mm		571.6x481x757.3mm	
HxWxD(Not included Rack Mount Kit,wheels)	467.6x445.2x757.3mm		467.6x445.2x757.3mm		467.6x445.2x757.3mm	
Weight	77.5 kg		84.8 kg		92 kg	
Temperature*4	0~40℃					
Safety & EMC	CE					

冷卻方式：智慧型風扇冷卻

輸入電源：100~240 Vac ±10%，50/60Hz, Single-phase

註*1：環境溫度=25℃ 時的額定功率規格
註*2：CC Mode 可強制於 RangeII
註*3：如果工作電流低於0.1%範圍，則精度規格為0.1%F.S.
註*4：操作溫度範圍為0~40℃，此規格表內之精確度僅適用於25℃±5℃

訂購方式

PEL-5008C-1200-320



1200V，320A，8kW

PEL-5010C-1200-400



1200V，400A，10kW

PEL-5012C-1200-480



1200V，480A，12kW

超高功率直流電子負載

規　格								
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 ~ 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*2	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*3	± 0.05% of (Setting + Range)							
Constant Resistance Mode								
Range	12Ω~2Ω	2Ω~ 0.0250Ω	10KΩ~1.666Ω	1.666Ω~0.0208Ω	9KΩ~1.5Ω	1.5Ω~0.0187Ω	7.5KΩ~1.25Ω	1.25Ω~0.0156Ω
Resolution	8.3333μS	33.334μΩ	10μS	27.778μΩ	11.111μS	25μΩ	13.333μS	20.834μΩ
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	2000W	20000W	2400W	24000W
Resolution	24mW	240mW	28.8mW	288mW	32mW	320mW	38.4mW	384mW
Accuracy	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)	± 0.1% of (Setting+Range)	± 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	1200V	800A	1200V	960A
Resolution	20mV	9.6mA	20mV	3.2mA	20mV	3.84mA	20mV	15.36mA
Accuracy	± 1.0% of (Setting + Range)							
Constant Voltage Mode + Constant Power Mode								
Range	1200V	15000W	1200V	18000W	1200V	20000W	1200V	24000W
Resolution	20mV	240mW	20mV	288mW	20mV	320mW	20mV	384mW
Accuracy	± 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	0.0352A~2.2A/μs	0.352A~22A/μs	0.0384A~2.4A/μs	0.384A~24A/μs
Resolution	0.0072A/μs	0.072A/μs	0.008A/μs	0.08A/μs	0.0088A/μs	0.088A/μs	0.0096A/μs	0.096A/μs
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	2mV	20mV	2mV	20mV	2mV	20mV	2mV	20mV
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)	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)	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*4	0~40°C							
Safety & EMC	CE							

冷卻方式：智慧型風扇冷卻

輸入電源：100~240 Vac ±10%，50/60Hz, Single-phase

註*1：環境溫度=25°C 時的額定功率規格
註*2：CC Mode 可強制於 RangeII
註*3：如果工作電流低於0.1%範圍，則精度規格為0.1%F.S.
註*4：操作溫度範圍為0~40°C，此規格表內之精確度僅適用於25°C±5°C

訂購方式

PEL-5015C-1200-600



1200V，600A，15kW

PEL-5018C-1200-720



1200V，720A，18kW

PEL-5020C-1200-800



1200V，800A，20kW

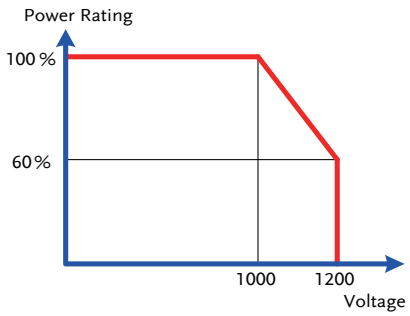
PEL-5024C-1200-960

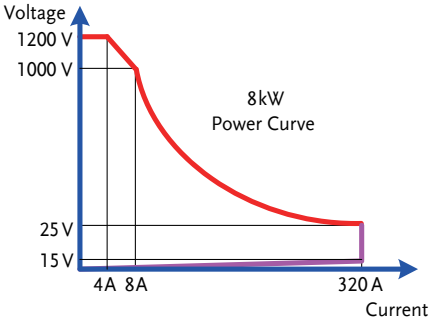


1200V，960A，24kW

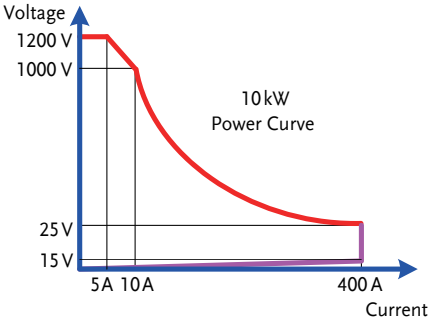
超高功率直流電子負載

功率曲線

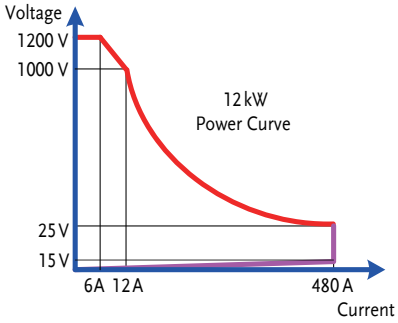




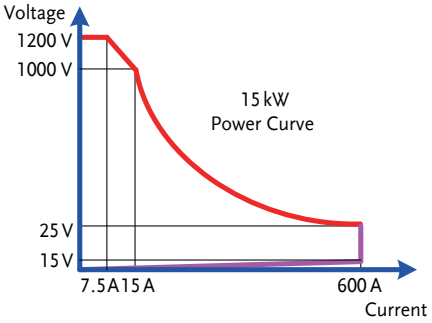
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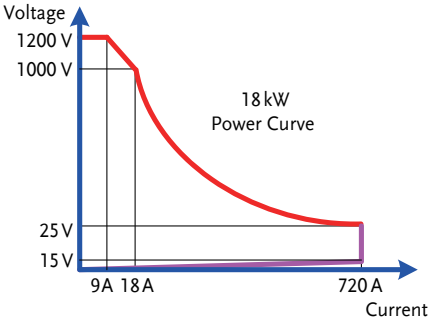
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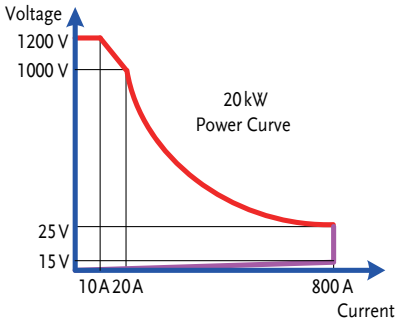
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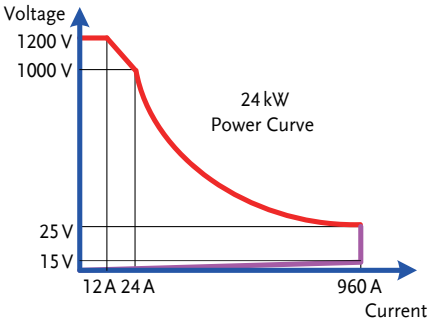
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PEL-5018C-1200-720

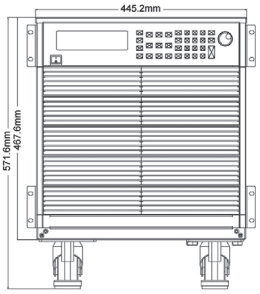


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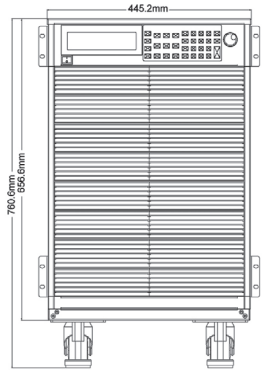


PEL-5024C-1200-960

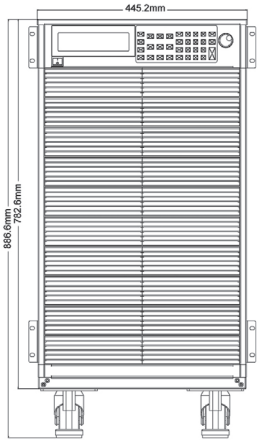
PEL-5000C 系列尺寸圖



8kW/10kW/12kW



15kW/18kW



20kW/24kW

PEL-022 GPIB Card



PEL-023 RS-232 Card



PEL-024 LAN Card



PEL-025 USB Card



PEL-030
GPIB+RS-232 Card



PEL-026
Hook Ring



PEL-027
Rack Mount Kit

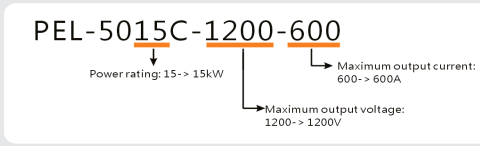


PEL-028
Handles

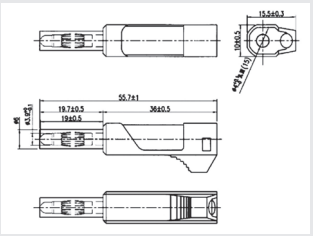


購 買 資 訊

PEL-5008C-150-800	150V/800A/8kW 超高功率直流電子負載	**PEL-5018C-600-1260**	600V/1260A/18kW 超高功率直流電子負載
PEL-5010C-150-1000	150V/1000A/10kW 超高功率直流電子負載	**PEL-5020C-600-1400**	600V/1400A/20kW 超高功率直流電子負載
PEL-5012C-150-1200	150V/1200A/12kW 超高功率直流電子負載	**PEL-5024C-600-1680**	600V/1680A/24kW 超高功率直流電子負載
PEL-5015C-150-1500	150V/1500A/15kW 超高功率直流電子負載	**PEL-5008C-1200-320**	1200V/320A/8kW 超高功率直流電子負載
PEL-5018C-150-1800	150V/1800A/18kW 超高功率直流電子負載	**PEL-5010C-1200-400**	1200V/400A/10kW 超高功率直流電子負載
PEL-5020C-150-2000	150V/2000A/20kW 超高功率直流電子負載	**PEL-5012C-1200-480**	1200V/480A/12kW 超高功率直流電子負載
PEL-5024C-150-2000	150V/2000A/24kW 超高功率直流電子負載	**PEL-5015C-1200-600**	1200V/600A/15kW 超高功率直流電子負載
PEL-5008C-600-560	600V/560A/8kW 超高功率直流電子負載	**PEL-5018C-1200-720**	1200V/720A/18kW 超高功率直流電子負載
PEL-5010C-600-700	600V/700A/10kW 超高功率直流電子負載	**PEL-5020C-1200-800**	1200V/800A/20kW 超高功率直流電子負載
PEL-5012C-600-840	600V/840A/12kW 超高功率直流電子負載	**PEL-5024C-1200-960**	1200V/960A/24kW 超高功率直流電子負載
PEL-5015C-600-1050	600V/1050A/15kW 超高功率直流電子負載		



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 15 PIN Parallel Cable 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

GTL-246	USB Cable, USB 2.0, A-B Type, 1200mm
GTL-248	GPIB Cable, Double Shielded, 2000mm
GTL-250	GPIB Cable, Double Shielded, 600mm

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

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