iNFiNiPOWER
Powering Trust, Driving Innovation

RPS-9000

Mega Power Platform

迎接下一個 Gigawatt 時代

800 kW 整合式系統

最高可擴充至 **8 MW**



Regenerative | Easy Use | Compliance | High Range | Constant Power | High Current

CE TÜVRheinland

主要特色

- 每機櫃 200 kW 功率平台
- 800 kW 整合式系統，可擴充至 8 MW
- 四象限回饋式電源平台
- 整合式電源、電子負載與電網模擬功能
- 高達 90% 能源回饋效率
- 高電流輸出能力
- 可擴充並聯架構
- 支援單相、三相與分相輸出
- 支援 CV（定電壓）、CC（定電流）與 CP（定功率）
- 支援 LIST、STEP、PULSE、TRANSIENT 與任意波形編輯輸出
- 完整電網擾動模擬與諧波分析
- 支援 IEC 61000、IEEE 1547、UL 1741 與 IEC 62116 測試需求
- 提供 USB、LAN、GPIB、CAN 與外部 I/O 通訊介面

應用領域

- AI 資料中心、雲端運算中心與高密度 GPU 基礎設施
- MW 級充電系統（MCS）、超高速 DC 充電與電動車充電基礎設施
- 商用電動車、重型電動卡車、電動巴士與電動車充電基礎設施
- 電池儲能系統（BESS）與電力轉換系統（PCS）
- Grid-Forming 與 Grid-Following 逆變器、電網互連驗證與電網穩定性測試
- 太陽能光電、風力發電與再生能源電力轉換系統
- 公用電網模擬、電網法規符合性測試與電網驗證
- HVDC 高壓直流系統、智慧電網基礎設施與工業電力電子設備
- 電力硬體迴路測試（PHIL）、數位電力驗證、即時模擬與控制演算法開發

產品介紹

RPS-9000 是專為 AI 基礎設施、公用事業級能源系統及高功率驗證應用所打造的新世代 Mega Power Platform。整合四象限回饋式運作架構，並結合可編程電源、電子負載與電網模擬功能於單一平台，提供完整的一體化 AC/DC 電力測試解決方案。

每台機櫃可提供 200 kW 可編程輸出功率，四台機櫃整合後可形成 800 kW 系統，並可透過多套系統並聯擴充至 8 MW，滿足下一世代能源設備的大功率、可擴充測試需求。

憑藉卓越的高電流輸出能力、先進的電網模擬功能，以及最高 90% 的能源回饋效率，RPS-9000 在大幅降低測試能耗的同時，仍能提供穩定、可靠且適用於關鍵任務（Mission-Critical）的高效能電力測試平台。

應用領域

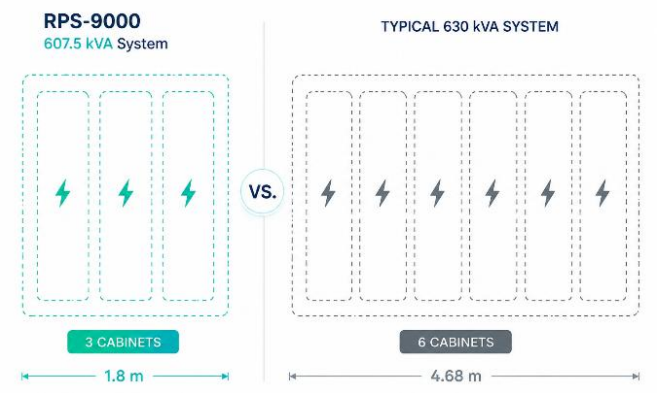
RPS-9000 適用於各類高功率電力驗證應用，包括 AI 資料中心、高密度 GPU 電源基礎設施、MW 級充電系統（MCS）、DC 快速充電設備、商用電動車、電池儲能系統（BESS）、電力轉換系統（PCS）、太陽能光電、風力發電以及 HVDC 高壓直流系統等新世代能源應用。

其整合可編程電源、回饋式電子負載與電網模擬功能，可完整驗證 Grid-Forming 與 Grid-Following 逆變器、各類電力電子設備及其他併網設備的性能表現。搭配完整的電網擾動模擬功能與自動化法規測試能力，可有效簡化國際標準驗證流程；同時支援 Power Hardware-in-the-Loop（PHIL），滿足產品研發、控制演算法驗證及系統層級測試需求。



更高功率，更少基礎設施

傳統的大功率電源系統通常需要透過增加更多機櫃來提升容量，導致安裝空間需求增加、地板載重提高，並提升整體部署的複雜度。RPS-9000 僅需三台機櫃即可提供 607.5 kVA 的輸出能力，而同級約 630 kVA 的系統通常需要 六台機櫃才能達成。



此架構可將機櫃數量減少 50%，安裝占地由 4.68 公尺縮減至 1.8 公尺，系統總重量也由 6.72 噸降低至 2.07 噸。因此，RPS-9000 能在不犧牲測試能力的前提下，提供更高效率的大功率測試平台，有效簡化系統安裝、提升實驗室空間利用率，並降低整體場地與基礎設施需求。



真正的高電流輸出能力

隨著 AI 伺服器、MW 級充電系統（MCS）及新世代電池平台持續朝向低電壓、高電流架構發展，電力測試設備對高電流輸出能力的需求也日益提升。RPS-9000 採用恆功率（Constant Power）架構，可在不同輸出電壓下提供卓越的高電流輸出能力。



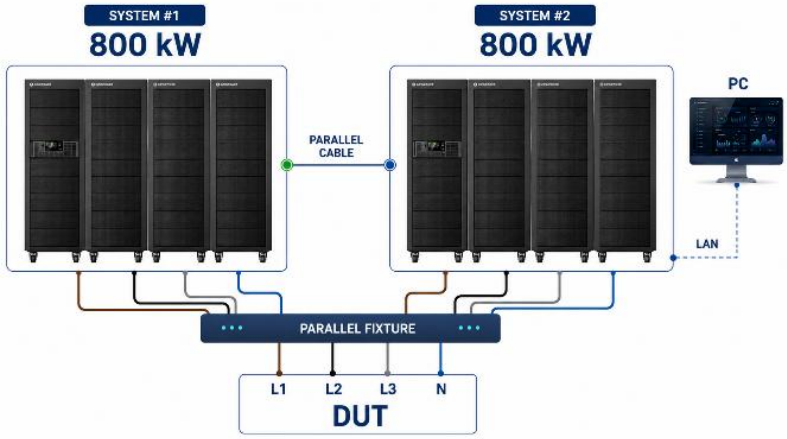
單一 200 kW 機櫃最高可提供 1296 Arms 的連續輸出電流，透過系統擴充可分別達到 2592 Arms 與 3888 Arms 的連續輸出能力；峰值電流更高達 11,664 Apk。此高電流能力可真實模擬各類高功率電力電子設備的運作條件，滿足傳統可編程式電源難以實現的測試需求。

搭配最高 90% 的能源回饋效率，RPS-9000 在提供穩定可靠高功率測試性能的同時，也能有效降低能源消耗與整體測試成本。

可擴充架構，打造 MW 級電力測試平台

RPS-9000 採用可擴充式模組化架構，標準系統提供 800 kW 輸出能力。隨著測試需求提升，可透過多套系統並聯，將輸出容量擴充至 8 MW，並維持同步運作，提供穩定且一致的可編程式 AC/DC 電力輸出。

其模組化設計可在不需大幅增加基礎設施的情況下，快速完成系統擴充，廣泛適用於 AI 基礎設施、MW 級充電系統、電池儲能系統、再生能源及其他大功率電力測試應用。



完整電網模擬與法規驗證

RPS-9000 整合可編程電源、回饋式電子負載與電網模擬功能，可真實重現各種實際電網運行情境，提供完整的電網驗證測試平台。工程師可模擬電壓驟降（Voltage Dip）、頻率變動（Frequency Variation）、相位跳變（Phase Jump）、諧波注入（Harmonic Injection）、低電壓穿越（LVRT）、高電壓穿越（HVRT）等各種電網擾動，並完整驗證 Grid-Forming 與 Grid-Following 逆變器、電池儲能系統（BESS）、太陽能光電（Solar PV）、風力發電（Wind Power）及其他併網設備的性能與可靠性。

平台內建波形產生、諧波分析及自動化法規測試功能，可有效簡化 IEC 61000、IEEE 1547、UL 1741、IEC 62116 等國際標準的驗證流程，協助加速產品開發、法規符合性測試與產品認證。



電網擾動與瞬態事件模擬

RPS-9000 內建 LIST（清單）、STEP（步階）、PULSE（脈衝） 及 TRANSIENT（瞬態） 等多種動態測試模式，可精確模擬電網中各種動態變化與瞬態事件，協助驗證待測設備在異常供電條件下的穩定性與可靠性。

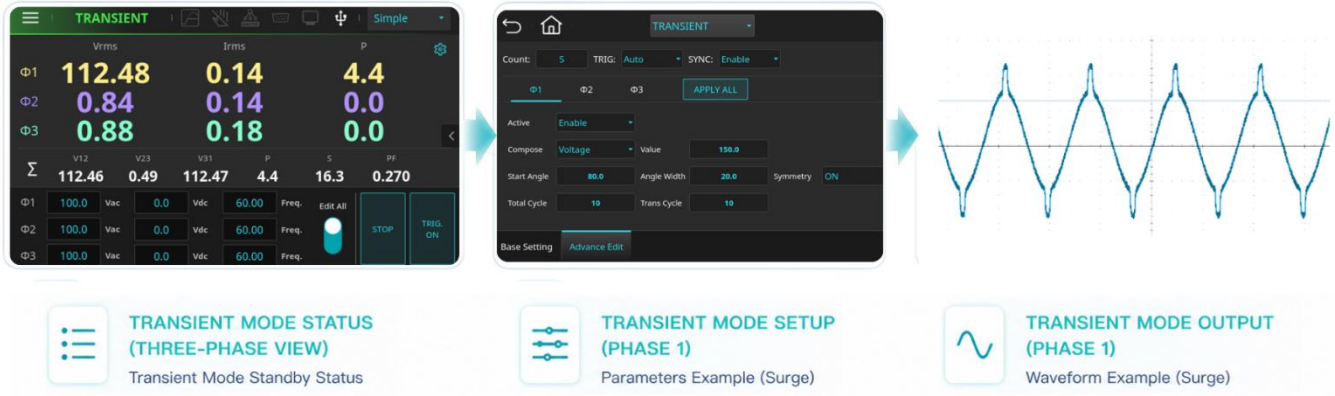
- **LIST（清單）模式** 可建立多步驟測試序列，自由設定各步驟的電壓、頻率、波形、停留時間及循環次數，適用於長時間耐久測試、自動化測試及法規驗證。



- **STEP（步階）模式** 可快速產生階梯式電壓與頻率變化，模擬電網電壓或頻率的突然改變，驗證待測設備對快速變動條件的動態響應能力。
- **PULSE（脈衝）模式** 可設定脈衝幅值、工作週期（Duty Cycle）及持續時間，模擬短時間電壓變動或瞬間擾動，評估設備於突發事件下的耐受能力與保護機制。



- **TRANSIENT（瞬態）模式** 支援電壓驟降（Sag）、電壓突升（Surge）及其他瞬態事件模擬，可自由設定事件發生角度、持續時間、變化幅度及正負半波特性，精確重現各種實際電網異常情境。

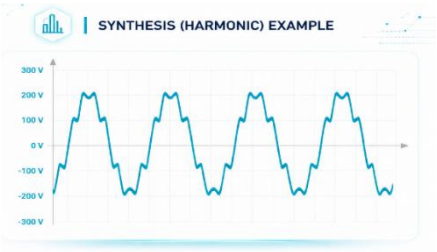


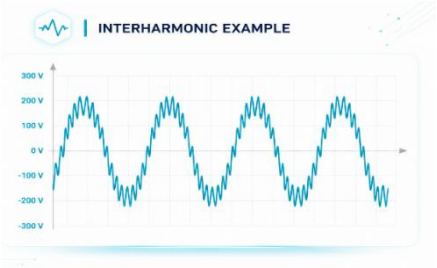
高階諧波與間諧波模擬

RPS-9000 提供完整的諧波與間諧波模擬能力，可精確重現現代電網中的波形失真、諧波污染及非線性負載所造成的電力品質事件。

- **波形合成模式（Synthesis）**

支援 2～50 次諧波自由合成，每一階諧波皆可獨立設定幅值及相位角，可精確建立多階諧波組成的複合波形。同時支援交流基波電壓、基波頻率、直流偏壓及起始相位角等參數設定，提供高度彈性的波形設計能力，可有效模擬各種諧波污染與電力品質測試情境。



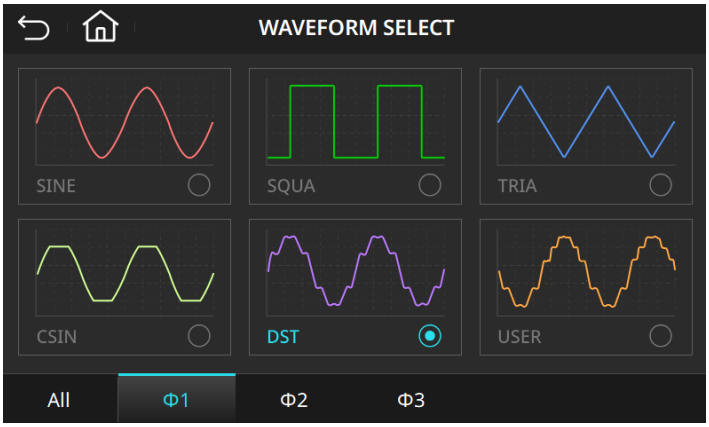


- **間諧波模式（Interharmonic）**

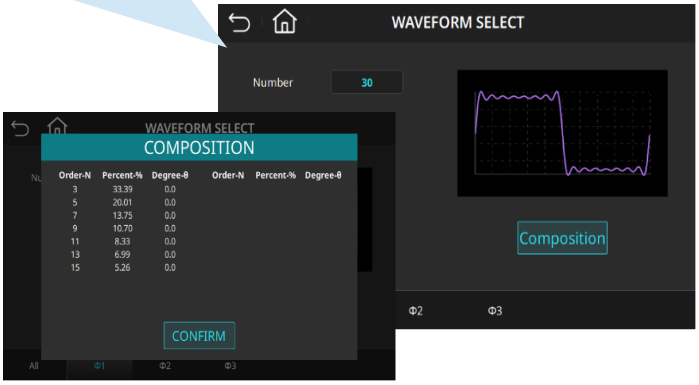
支援於基本輸出波形上疊加非整數倍頻率的間諧波成分，並可自由設定間諧波頻率、輸出幅度及持續時間，精確模擬變頻設備、非線性負載及再生能源系統所產生的複雜電網干擾，協助驗證待測設備於真實供電環境下的抗擾能力、控制穩定性及運轉可靠性。

進階波形產生與電網模擬

RPS-9000 提供完整的波形產生與電網模擬，支援多種標準波形、特殊波形及使用者自訂波形，可精確重現實際電網中的各種供電特性與電力品質情境。內建多組預設波形資料庫，協助工程師快速建立符合實際應用需求的測試環境。

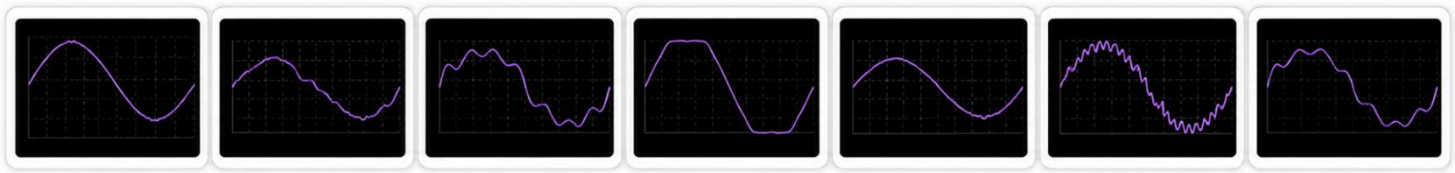


內建 30 組失真波形（DST），可快速模擬電網失真，縮短測試建置時間。



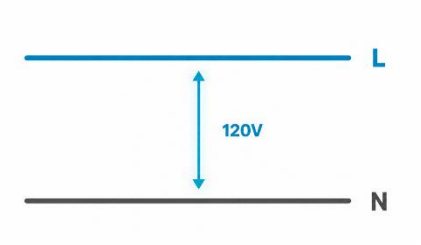
支援波形包括：

- 正弦波（Sine）
- 方波（Square）
- 三角波（Triangle）
- 截頂正弦波（Clipped Sine）:
- 失真波形資料庫（Distortion Waveforms, DST）
- 使用者自訂波形（User-defined Waveforms）



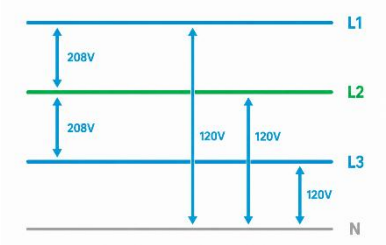
靈活的輸出相位配置

RPS-9000 支援三相、單相及分相（Split-Phase）三種輸出模式，可透過直覺式觸控介面快速切換，無需額外硬體即可因應不同電網架構、測試標準與產品驗證需求。無論是公用電網模擬、高電流單相設備測試，或北美分相供電應用，皆能提供靈活且可靠的電力測試能力。



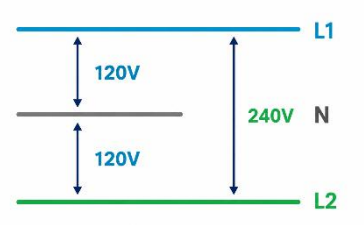
單相模式（Single-Phase Mode）

可將三相輸出能力集中於單一相位，最高提供三倍單相輸出電流，適用於大功率單相設備、高電流電源、EV 充電設備及其他高功率負載測試。搭配專用並聯輸出治具，可兼顧大電流測試的安全性與系統穩定性。



三相模式（Three-Phase Mode）

支援正相序（RST）與負相序（RTS）切換，提供平衡、同頻率及獨立三種控制模式。各相電壓、頻率與相位角皆可獨立設定，可精確模擬三相不平衡、相位偏移及各種電網擾動，滿足電力電子、儲能與併網設備測試需求。



分相模式（Split-Phase Mode）

專為北美 Split-Phase（120/240 V）供電架構設計，可提供最高 700 V L-L（選配 800 V L-L）的輸出電壓。未使用端子將自動切換為 0 V，提升操作安全性，並可提供系統額定功率的 2/3 作為輸出能力。

雙模式量測介面

RPS-9000 提供 Simple 與 Detail 兩種即時量測顯示模式，使用者可依不同測試需求快速切換，於設備持續輸出的情況下即時檢視各項量測資訊，兼顧快速監控與完整分析需求。

- **Simple 模式 | 快速掌握關鍵資訊**

Simple 模式以大型數值顯示 3 項關鍵電力量測參數，讓使用者能快速掌握電壓、電流、功率等重要資訊。簡潔清晰的介面特別適合設備調校、產線測試、功能驗證及日常操作，可在遠距離也能清楚辨識量測結果，提升監控效率。

- **Detail 模式 | 15 項關鍵電力量測一覽**

Detail 模式可於單一畫面提供完整的多參數量測資訊，涵蓋 15 項關鍵電力參數，包含 Vrms、Irms、Vac、Vdc、Iac、Idc、Vp、Ip、Is、F、P、S、Q、PF 與 CF。工程師可同步掌握各項電氣特性，快速分析電壓、電流、功率及功率因數等關鍵數據，特別適用於研發驗證、產品測試、電力品質分析及故障診斷等需要完整量測資訊的應用，提升測試效率與分析能力。



內建量測與分析

RPS-9000 內建即時量測與分析功能，可同步監測輸出電壓、電流及電力品質參數，並提供諧波分析與即時波形檢視。透過完整的量測資訊與圖形化介面，工程師可快速掌握待測設備（DUT）的運作狀態與電力品質，提升測試效率。



- **諧波分析（Harmonic Analysis）**

可即時量測輸出電壓與電流的總諧波失真（THD），並分析基波至第 50 次諧波的幅值、百分比及相位資訊。提供電壓、電流、頻率、有功功率、功率因數及波峰因數等量測數據，並支援表格（Table）與長條圖（Bar Chart）顯示，方便快速分析諧波分布與電力品質。

- **即時波形檢視（Real-time Waveform Monitor）**

可同步顯示三相輸出電壓與電流波形，提供類似示波器的即時監測介面。支援各相波形切換，以及電壓、電流與時間軸縮放，方便觀察波形細節、瞬態變化及輸出狀態，提升波形分析與系統驗證效率。

PowerSense™ AIoT 智慧監測與預測性維護

PowerSense™ 是 INFINIPOWER 專為 RPS 系列打造的 AIoT 智慧監測平台，可將電力測試設備升級為具備即時監測、智慧診斷、預測性維護與能源管理能力的智慧電力測試系統。平台可即時監測設備運行狀態、輸出電壓、電流、功率、回收能量、系統效率、CO_2 減碳量等關鍵運行資訊，並持續追蹤設備健康度、警報、校正狀態及模組運行狀態，協助使用者全面掌握系統運作情形。

透過持續監測主控制板、功率模組、散熱風扇、交換器、溫度、濕度等關鍵元件，結合智慧診斷與歷史趨勢分析，PowerSense™ 可及早辨識異常趨勢並預測維護需求，有效降低非預期停機風險，提升設備可用率、測試效率與長期運行可靠性。此外，平台提供即時告警、事件記錄、歷史趨勢分析、能源統計、資料匯出及遠端監控等功能，協助企業打造更高效率、更可靠的智慧電力測試平台。



Technical Specifications

Item				RPS-9200	RPS-9270
AC INPUT	Phase			3Ø3W+PE	
	Voltage			380 - 480 V_{L-L} ± 10%	
	Frequency			47 - 63Hz	
	Max. Current			426A/phase (380 - 480 VL-L ± 10%)	568A/phase (380 - 480 VL-L ± 10%)
	Power Factor(*1)			0.99(Typical)	
AC OUTPUT	Phase Modes			3Ø, 1Ø or Split phase selectable	
	Max. Power			202.5kVA/135kVA(Split phase)	270kVA/180kVA(Split phase)
	Per Phase/Channel			67.5kVA	90kVA
AC VOLTAGE	Range			0 - 350V_{L-N}, 0 - 606V_{L-L}, 0 - 700V_{L-L}(Split phase) Option : 0 - 400V_{L-N}, 0 - 692V_{L-L}, 0 - 800V_{L-L}(Split phase)	
	Resolution			0.1V	
	Setting Accuracy			± (0.1% of setting + 0.2% F.S.)	
	Total Harmonic Distortion (THD)(*2)			<0.4% @ 50/60Hz <0.8% @ 30 - 150Hz	
	Line Regulation (*3)			± 0.1%	
	Load Regulation (*4)			± 0.2%	
	Phase Angle		Range	0 - 359.9˚	
			Resolution	0.1˚	
MAX. AC CURRENT	RMS(*5)			1296A(1Ø)/432A(3Ø/Split)	1728A(1Ø)/576A(3Ø/Split)
	Peak			3888A(1Ø)/1296A(3Ø/Split)	5184A(1Ø)/1728A(3Ø/Split)
	Crest Factor			3	3
FREQUENCY	Range			DC, 30.00 - 150.0 Hz Option : DC, 30.00 - 1000.0 Hz	
	Resolution			0.01Hz	
	Accuracy(*6)			± 0.01% F.S.	
DC OUTPUT	Max. Power			202.5kW/135kW (Split phase)	270kW/180kW(Split phase)
	Per Phase/Channel			67.5kW	90kW
DC VOLTAGE	Range			±495V_{DC}, ±990V_{DC}(Split phase) Option : ±565V_{DC}, ±1130V_{DC}(Split phase)	
	Resolution			0.1V	
	Setting Accuracy			± (0.1 % of setting + 0.2% F.S.)	
MAX. DC CURRENT	Range			972A(1Ø)/324A(3Ø/Split)	1296A(1Ø)/432A(3Ø/Split)
HARMONIC SYNTHESIS FUNCTION	up to 50 Harmonic orders @ 50/60Hz fundamental frequency				
REGENERATIVE FUNCTION	Current Total Harmonic Distortion (iTHD)(*7)			<9%(Typical)	<9%(Typical)
	Power Factor(*8)			>0.97(Typical)	
CURRENT LIMIT FUNCTION	Setting	Range	1Ø	15 - 1296A	30 - 1728A
			3Ø/Split phase	5 - 432A	10 - 576A
		Resolution		1A	
		Accuracy		± (2.0% of setting + 0.5% F.S.)	
	Response Time			< 0.5s	

Item			RPS-9200	RPS-9270
AC Load Function				
INPUT	Phase		3Ø3W+PE	
	Voltage		380 - 480 VL-L ± 10%	
	Frequency		47 - 63Hz	
	Max. Current		356A/phase (380 - 480 VL-L ± 10%)	475A/phase (380 - 480 VL-L ± 10%)
	Power Factor(*9)		0.95(Typical)	
Operating Range	Power Rating		202.5kVA(3Ø/1Ø)	270kVA(3Ø/1Ø)
	Current(rms)		432A(3Ø)/1296A(1Ø)	576A(3Ø)/1728A(1Ø)
	Current(peak)		1296A(3Ø)/3888A(1Ø)	1728A(3Ø)/5184A(1Ø)
	Voltage		AC Mode : 30 - 350V, Option: 30 - 400V DC Mode : 20 - 495V, Option: 20 - 565V	
Operating Frequency	Range		DC, 30 - 150 Hz	
CC Mode (each phase)	Current	Range	0 - 432A	0 - 576A
		Resolution /Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
	Crest Factor	Range	1.414 - 3.000	
		Resolution	0.001	
	Power Factor	Range	0.593 - 1.000(type=PF) / 0.202 - 1.000(type=CFPF)	
		Resolution /Accuracy(*11)	0.001 / ± 1% F.S.	
CP/CS Mode (each phase)	Power	Range	0.0 - 202.5kW, 0.0 - 202.5kVA	0.0 - 270kW, 0.0 - 270kVA
		Resolution	0.1kW / 0.1kVA	
		Accuracy(*12)	± (0.3% of reading + 0.3% F.S.)	
	Crest Factor	Range	1.414 - 3.000	
		Resolution	0.001	
	Power Factor	Range	0.593 - 1.000(type=PF) / 0.202 - 1.000(type=CFPF)	
		Resolution /Accuracy(*11)	0.001 / ± 1% F.S.	
CR Mode (each phase)	Resistance	Range	0.069 – 116Ω	0.052 – 87Ω
		Resolution / Accuracy(*10)	0.001Ω / ± (0.3% of reading + 0.5% F.S.)	
CZ Mode (each phase)	Impedance	R1 Range / R1 Resolution	0.01 - 1000.00Ω / 0.01Ω	
		R2 Range / R2 Resolution	0.01 - 1000.00Ω /0.01Ω	
		R3 Range / R3 Resolution	0.01 - 1000.00Ω /0.01Ω	
		C Range / C Resolution	0 - 1000.000mF / 0.001mF	
		L Range / L Resolution	0 - 1000.000mH / 0.001mH	
CC Phase Lead/Lag Mode (each phase)	Current	Range	0 - 432A	0 - 576A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
	Phase	Range	-90.0deg ~ +90.0deg (Current source mode: +90.1deg ~ +180deg & -90.1deg ~ -180deg)	
		Resolution / Accuracy(*13)	0.1deg / ± 1% F.S.	
CP/CS Phase Lead/Lag Mode (each phase)	Power	Range	0.0 - 202.5kW, 0.0 - 202.5kVA	0.0 - 270kW, 0.0 - 270kVA
		Resolution	0.1kW / 0.1kVA	
		Accuracy(*12)	± (0.3% of reading + 0.3% F.S.)	
	Phase	Range	-90.0deg ~ +90.0deg (Current source mode: +90.1deg ~ +180deg & -90.1deg ~ -180deg)	
		Resolution / Accuracy(*13)	0.1deg / ± 1% F.S.	

Item			RPS-9200	RPS-9270
DC Load Function				
CC Mode (each phase)	Current	Range	0 - 324A	0 - 432A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
CV Mode (each phase)	Voltage	Range	20 - 495V	
		Resolution / Accuracy	0.01V / ± (0.1% of reading + 0.2% F.S.) at Voltage > 5V	
CP Mode (each phase)	Power	Range	0.0 - 202.5kW	0.0 - 270kW
		Resolution / Accuracy(*12)	0.1kW /± (0.3% of reading + 0.3% F.S.)	
CR Mode (each phase)	Resistance	Range	0.062 - 218Ω	0.046 - 163Ω
		Resolution / Accuracy(*10)	0.001Ω / ± (0.3% of reading + 0.5% F.S.)	
Advanced Mode	Mode(each phase)		CCD, CRD	

Item				RPS-9200	RPS-9270
MEASUREMENT	Voltage (AC)	Range		0 - 350VL-N, 0 - 606VL-L, 0 – 700VL-L(Split) Option : 0 - 400VL-N, 0 - 692VL-L, 0 – 800VL-L(Split)	
		Resolution / Accuracy		0.01V / ± (0.1% of reading + 0.2% F.S.) at Voltage > 5V	
MEASUREMENT	Voltage (DC)	Range		±495VDC, ±990VDC (Split phase) / Option : ±565VDC, ±1130VDC (Split phase)	
		Resolution / Accuracy		0.01V / ± (0.1 % of reading + 0.2% F.S.) at Voltage > 5V	
	Current (AC,DC)	Range	1Ø	0.0 - 1296.0A	0.0 - 1728.0A
			3Ø/Split phase	0.0 - 432.0A	0.0 - 576.0A
		Resolution		0.1A at 0.0 - 999.9A / 1A at Current ≧ 1000A	
		Accuracy		± (0.4% of reading + 0.3% F.S.)	
	Peak Current	Range	1Ø	0.0 - 3888.0Apk	0.0 - 5184.0Apk
			3Ø/Split phase	0.0 - 1296.0Apk	0.0 - 1728.0Apk
		Resolution		0.1A at 0.0 - 999.9Apk / 1A at Current ≧ 1000Apk	
		Accuracy		± (0.4% of reading + 0.6% F.S.)	
	Power (AC,DC)	Range	1Ø	0.00kW - 202.50kW	0.00kW - 270.00kW
			3Ø	0.00kW - 67.50kW	0.00kW - 90.00kW
			Split phase	0.00kW - 135.00kW	0.00kW - 180.00kW
		Resolution		0.01kW at 0.00 - 99.99kW / 0.1kW at Power ≧100.0kW	
		Accuracy		± (0.4% of reading + 0.4% F.S.)	
	Power Apparent (VA)	Range	1Ø	0.00kVA - 202.50kVA	0.00kVA - 270.00kVA
			3Ø	0.00kVA - 67.50kVA	0.00kVA - 90.00kVA
			Split phase	0.00kVA - 135.00kVA	0.00kVA - 180.00kVA
		Resolution		0.01kVA at 0.00 - 99.99kVA / 0.1kVA at Power ≧100.0kVA	
		Accuracy		V×A, Calculated value	
	Power Factor	Range / Resolution		0 -1.000 / 0.001	
		Accuracy		W / VA ,Calculated and displayed to three significant digits	
	Crest Factor	Range / Resolution		0 - 10.00 / 0.01	
		Accuracy		Ap / A ,Calculated and displayed to two significant digits	
GENERAL	Interface			USB, Ethernet, External I/O(DB25), GPIB Option: CAN Bus	
	Display			Full Color, Touch LCD Display, 5” Diagonal size, 800 x 400 Pixels resolution	
	Protection			OCP, OVP, OPP, OTP, SHORT, FAN	
	V Sense			Yes	
	Efficiency (*14)			90% (Typical)	
	Dimension(H x W x D)			2045 x 600 x 1100 mm 80.51 x 23.62 x 43.31 inch	2045 x 1200 x 1100 mm 80.51 x 47.24 x 43.31 inch (2x 42U Cabinets coupled)
	Weight			740 kg / 1631.42 lbs	1120 kg / 2469.18 lbs
ENVIRONMENTAL	Cooling			Variable speed fan cooled, front intake, rear exhaust	
	Operating / Storage Temperature			0 to 40°C / -40 to 85°C	
	Altitude / Operating Humidity(*15)			2000m (6500 feet) / 0% to 95% RAH	
REGULATORY COMPLIANCE	Safety			Low Voltage Directive 2014/30/EU, EN 61010-1:2017	
	EMC			CE marked for EMC Directive 2014/30/EU per EN 61326-1:2013 Class A	
	CE Mark LVD Categories			Installation Overvoltage Category: II; Pollution Degree: 2; indoor use only.	

Note.

*1 Tested on input voltage 380Vac with full output power
*2 Maximum distortion is tested on output voltage 350Vac with full output power under linear load
*3 With respect to changes in the rated range of input voltage.
*4 Load regulation is tested by sine wave and remote sense
*5 At working voltage 125V
*6 When the output voltage is greater than 40V
*7 Current total harmonic distortion is tested on input voltage 380Vac with full output power
*8 Power factor is tested on input voltage 220Vac with full output power
*10 The operating current must be maintained at greater than 1% of the rated maximum current.
*11 The Power Factor (PF) setting accuracy is specified under an operating current > 1% of the rated maximum current, a sinusoidal input voltage (Vthd < 0.6% @ 30 ~ 100 Hz), and a CF setting of 1.414.
*12 The operating power must be maintained at greater than 0.5% of the rated maximum power.
*13 The Phase setting accuracy(F.S.=180deg) is specified under an operating current > 1% of the rated maximum current, a sinusoidal input voltage (Vthd < 0.6% @ 30 ~ 150 Hz), and a CF setting of 1.414.
*14 Efficiency is tested on input voltage 380V and output voltage 250Vac with full output power under linear load
*15 In the state of non-condensing

The above specifications are subject to change without prior notice.

Technical Specifications

Item				RPS-9330	RPS-9400
AC INPUT	Phase			3Ø3W+PE	
	Voltage			380 - 480 V_{L-L} ± 10%	
	Frequency			47 - 63Hz	
	Max. Current			711A/phase (380 - 480 VL-L ± 10%)	853A/phase (380 - 480 VL-L ± 10%)
	Power Factor(*1)			0.99(Typical)	
AC OUTPUT	Phase Modes			3Ø, 1Ø or Split phase selectable	
	Max. Power			337.5kVA/225kVA(Split phase)	405kVA/270kVA(Split phase)
	Per Phase/Channel			112.5kVA	135kVA
AC VOLTAGE	Range			0 - 350V_{L-N}, 0 - 606V_{L-L}, 0 - 700V_{L-L}(Split phase) Option : 0 - 400V_{L-N}, 0 - 692V_{L-L}, 0 - 800V_{L-L}(Split phase)	
	Resolution			0.1V	
	Setting Accuracy			± (0.1% of setting + 0.2% F.S.)	
	Total Harmonic Distortion (THD)(*2)			<0.4% @ 50/60Hz <0.8% @ 30 - 150Hz	
	Line Regulation (*3)			± 0.1%	
	Load Regulation (*4)			± 0.2%	
	Phase Angle		Range	0 - 359.9˚	
			Resolution	0.1˚	
MAX. AC CURRENT	RMS(*5)			2160A(1Ø)/720A(3Ø/Split)	2592A(1Ø)/864A(3Ø/Split)
	Peak			6480A(1Ø)/2160A(3Ø/Split)	7776A(1Ø)/2592A(3Ø/Split)
	Crest Factor			3	3
FREQUENCY	Range			DC, 30.00 - 150.0 Hz Option : DC, 30.00 - 1000.0 Hz	
	Resolution			0.01Hz	
	Accuracy(*6)			± 0.01% F.S.	
DC OUTPUT	Max. Power			337.5kW/225kW (Split phase)	405kW/270kW(Split phase)
	Per Phase/Channel			112.5kW	135kW
DC VOLTAGE	Range			±495V_{DC}, ±990V_{DC}(Split phase) Option : ±565V_{DC}, ±1130V_{DC}(Split phase)	
	Resolution			0.1V	
	Setting Accuracy			± (0.1 % of setting + 0.2% F.S.)	
MAX. DC CURRENT	Range			1620A(1Ø)/540A(3Ø/Split)	1944A(1Ø)/648A(3Ø/Split)
HARMONIC SYNTHESIS FUNCTION	up to 50 Harmonic orders @ 50/60Hz fundamental frequency				
REGENERATIVE FUNCTION	Current Total Harmonic Distortion (iTHD)(*7)			<9%(Typical)	<9%(Typical)
	Power Factor(*8)			>0.97(Typical)	
CURRENT LIMIT FUNCTION	Setting	Range	1Ø	30 - 2160A	30 - 2592A
			3Ø/Split phase	10 - 720A	10 - 864A
		Resolution		1A	
		Accuracy		± (2.0% of setting + 0.5% F.S.)	
	Response Time			< 0.5s	

Item			RPS-9330	RPS-9400
AC Load Function				
INPUT	Phase		3Ø3W+PE	
	Voltage		380 - 480 VL-L ± 10%	
	Frequency		47 - 63Hz	
	Max. Current		594A/phase (380 - 480 VL-L ± 10%)	712A/phase (380 - 480 VL-L ± 10%)
	Power Factor(*9)		0.95(Typical)	
Operating Range	Power Rating		337.5kVA(3Ø/1Ø)	405kVA(3Ø/1Ø)
	Current(rms)		720A(3Ø) / 2160A(1Ø)	846A(3Ø) / 2592A(1Ø)
	Current(peak)		2160A(3Ø) / 6480A(1Ø)	2592A(3Ø) / 7776A(1Ø)
	Voltage		AC Mode : 30 - 350V, Option: 30 - 400V DC Mode : 20 - 495V, Option: 20 - 565V	
Operating Frequency	Range		DC, 30 - 150 Hz	
CC Mode (each phase)	Current	Range	0 - 720A	0 - 864A
		Resolution /Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
	Crest Factor	Range	1.414 - 3.000	
		Resolution	0.001	
	Power Factor	Range	0.593 - 1.000(type=PF) / 0.202 - 1.000(type=CFPF)	
		Resolution /Accuracy(*11)	0.001 / ± 1% F.S.	
CP/CS Mode (each phase)	Power	Range	0.0 - 337.5kW, 0.0 - 337.5kVA	0.0 - 405kW, 0.0 - 405kVA
		Resolution	0.1kW / 0.1kVA	
		Accuracy(*12)	± (0.3% of reading + 0.3% F.S.)	
	Crest Factor	Range	1.414 - 3.000	
		Resolution	0.001	
	Power Factor	Range	0.593 - 1.000(type=PF) / 0.202 - 1.000(type=CFPF)	
		Resolution /Accuracy(*11)	0.001 / ± 1% F.S.	
CR Mode (each phase)	Resistance	Range	0.042 – 69Ω	0.034 – 58Ω
		Resolution / Accuracy(*10)	0.001Ω / ± (0.3% of reading + 0.5% F.S.)	
CZ Mode (each phase)	Impedance	R1 Range / R1 Resolution	0.01 - 1000.00Ω / 0.01Ω	
		R2 Range / R2 Resolution	0.01 - 1000.00Ω /0.01Ω	
		R3 Range / R3 Resolution	0.01 - 1000.00Ω /0.01Ω	
		C Range / C Resolution	0 - 1000.000mF / 0.001mF	
		L Range / L Resolution	0 - 1000.000mH / 0.001mH	
CC Phase Lead/Lag Mode (each phase)	Current	Range	0 - 720A	0 - 864A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
	Phase	Range	-90.0deg ~ +90.0deg (Current source mode: +90.1deg ~ +180deg & -90.1deg ~ -180deg)	
		Resolution / Accuracy(*13)	0.1deg / ± 1% F.S.	
CP/CS Phase Lead/Lag Mode (each phase)	Power	Range	0.0 - 337.5kW, 0.0 - 337.5kVA	0.0 - 405kW, 0.0 - 405kVA
		Resolution	0.1kW / 0.1kVA	
		Accuracy(*12)	± (0.3% of reading + 0.3% F.S.)	
	Phase	Range	-90.0deg ~ +90.0deg (Current source mode: +90.1deg ~ +180deg & -90.1deg ~ -180deg)	
		Resolution / Accuracy(*13)	0.1deg / ± 1% F.S.	

Item			RPS-9330	RPS-9400
DC Load Function				
CC Mode (each phase)	Current	Range	0 - 540A	0 - 648A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
CV Mode (each phase)	Voltage	Range	20 - 495V	
		Resolution / Accuracy	0.01V / ± (0.1% of reading + 0.2% F.S.) at Voltage > 5V	
CP Mode (each phase)	Power	Range	0.0 - 337.5kW	0.0 - 405kW
		Resolution / Accuracy(*12)	0.1kW /± (0.3% of reading + 0.3% F.S.)	
CR Mode (each phase)	Resistance	Range	0.037 - 131Ω	0.031 - 109Ω
		Resolution / Accuracy(*10)	0.001Ω / ± (0.3% of reading + 0.5% F.S.)	
Advanced Mode	Mode(each phase)		CCD, CRD	

Item				RPS-9330	RPS-9400
MEASUREMENT	Voltage (AC)	Range		0 - 350VL-N, 0 - 606VL-L, 0 - 700VL-L(Split) Option : 0 - 400VL-N, 0 - 692VL-L, 0 - 800VL-L(Split)	
		Resolution / Accuracy		0.01V / ± (0.1% of reading + 0.2% F.S.) at Voltage > 5V	
MEASUREMENT	Voltage (DC)	Range		±495VDC, ±990VDC (Split phase) / Option : ±565VDC, ±1130VDC (Split phase)	
		Resolution / Accuracy		0.01V / ± (0.1 % of reading + 0.2% F.S.) at Voltage > 5V	
	Current (AC,DC)	Range	1Ø	0.0 - 2160.0A	0.0 - 2592.0A
			3Ø/Split phase	0.0 - 720.0A	0.0 - 864.0A
		Resolution		0.1A at 0.0 - 999.9A / 1A at Current ≧ 1000A	
		Accuracy		± (0.4% of reading + 0.3% F.S.)	
	Peak Current	Range	1Ø	0.0 - 6480.0Apk	0.0 - 7776.0Apk
			3Ø/Split phase	0.0 - 2160.0Apk	0.0 - 2592.0Apk
		Resolution		0.1A at 0.0 - 999.9Apk / 1A at Current ≧ 1000Apk	
		Accuracy		± (0.4% of reading + 0.6% F.S.)	
	Power (AC,DC)	Range	1Ø	0.00kW - 337.50kW	0.00kW - 405.00kW
			3Ø	0.00kW - 112.50kW	0.00kW - 135.00kW
			Split phase	0.00kW - 225.00kW	0.00kW - 270.00kW
		Resolution		0.01kW at 0.00 - 99.99kW / 0.1kW at Power ≧100.0kW	
		Accuracy		± (0.4% of reading + 0.4% F.S.)	
	Power Apparent (VA)	Range	1Ø	0.00kVA - 337.50kVA	0.00kVA - 405.00kVA
			3Ø	0.00kVA - 112.50kVA	0.00kVA - 135.00kVA
			Split phase	0.00kVA - 225.00kVA	0.00kVA - 270.00kVA
		Resolution		0.01kVA at 0.00 - 99.99kVA / 0.1kVA at Power ≧100.0kVA	
		Accuracy		V×A, Calculated value	
	Power Factor	Range / Resolution		0 -1.000 / 0.001	
		Accuracy		W / VA ,Calculated and displayed to three significant digits	
	Crest Factor	Range / Resolution		0 - 10.00 / 0.01	
		Accuracy		Ap / A ,Calculated and displayed to two significant digits	
GENERAL	Interface			USB, Ethernet, External I/O(DB25), GPIB Option: CAN Bus	
	Display			Full Color, Touch LCD Display, 5” Diagonal size, 800 x 400 Pixels resolution	
	Protection			OCP, OVP, OPP, OTP, SHORT, FAN	
	V Sense			Yes	
	Efficiency (*14)			90% (Typical)	
	Dimension(H x W x D)			2045 x 1200 x 1100 mm 80.51 x 47.24 x 43.31 inch (2x 42U Cabinets coupled)	2045 x 1200 x 1100 mm 80.51 x 47.24 x 43.31 inch (2x 42U Cabinets coupled)
	Weight			1300 kg / 2866.01 lbs	1480 kg / 3262.84 lbs
ENVIRONMENTAL	Cooling			Variable speed fan cooled, front intake, rear exhaust	
	Operating / Storage Temperature			0 to 40°C / -40 to 85°C	
	Altitude / Operating Humidity(*15)			2000m (6500 feet) / 0% to 95% RAH	
REGULATORY COMPLIANCE	Safety			Low Voltage Directive 2014/30/EU, EN 61010-1:2017	
	EMC			CE marked for EMC Directive 2014/30/EU per EN 61326-1:2013 Class A	
	CE Mark LVD Categories			Installation Overvoltage Category: II; Pollution Degree: 2; indoor use only.	

Note.

*1 Tested on input voltage 380Vac with full output power
*2 Maximum distortion is tested on output voltage 350Vac with full output power under linear load
*3 With respect to changes in the rated range of input voltage.
*4 Load regulation is tested by sine wave and remote sense
*5 At working voltage 125V
*6 When the output voltage is greater than 40V
*7 Current total harmonic distortion is tested on input voltage 380Vac with full output power
*8 Power factor is tested on input voltage 220Vac with full output power
*10 The operating current must be maintained at greater than 1% of the rated maximum current.
*11 The Power Factor (PF) setting accuracy is specified under an operating current > 1% of the rated maximum current, a sinusoidal input voltage (Vthd < 0.6% @ 30 ~ 100 Hz), and a CF setting of 1.414.
*12 The operating power must be maintained at greater than 0.5% of the rated maximum power.
*13 The Phase setting accuracy(F.S.=180deg) is specified under an operating current > 1% of the rated maximum current, a sinusoidal input voltage (Vthd < 0.6% @ 30 ~ 150 Hz), and a CF setting of 1.414.
*14 Efficiency is tested on input voltage 380V and output voltage 250Vac with full output power under linear load
*15 In the state of non-condensing

The above specifications are subject to change without prior notice.

Technical Specification

Item				RPS-9470	RPS-9540
AC INPUT	Phase			3Ø3W+PE	
	Voltage			380 - 480 V_{L-L} ± 10%	
	Frequency			47 - 63Hz	
	Max. Current			995A/phase (380 - 480 VL-L ± 10%)	1137A/phase (380 - 480 VL-L ± 10%)
	Power Factor(*1)			0.99(Typical)	
AC OUTPUT	Phase Modes			3Ø, 1Ø or Split phase selectable	
	Max. Power			472.5kVA/315kVA(Split phase)	540kVA/360kVA(Split phase)
	Per Phase/Channel			157.5kVA	180kVA
AC VOLTAGE	Range			0 - 350V_{L-N}, 0 - 606V_{L-L}, 0 - 700V_{L-L}(Split phase) Option : 0 - 400V_{L-N}, 0 - 692V_{L-L}, 0 - 800V_{L-L}(Split phase)	
	Resolution			0.1V	
	Setting Accuracy			± (0.1% of setting + 0.2% F.S.)	
	Total Harmonic Distortion (THD)(*2)			<0.4% @ 50/60Hz <0.8% @ 30 - 150Hz	
	Line Regulation (*3)			± 0.1%	
	Load Regulation (*4)			± 0.2%	
	Phase Angle		Range	0 - 359.9˚	
			Resolution	0.1˚	
MAX. AC CURRENT	RMS(*5)			3024A(1Ø)/1008A(3Ø/Split)	3456A(1Ø)/1152A(3Ø/Split)
	Peak			9072A(1Ø)/3024A(3Ø/Split)	10368A(1Ø)/3456A(3Ø/Split)
	Crest Factor			3	3
FREQUENCY	Range			DC, 30.00 - 150.0 Hz Option : DC, 30.00 - 1000.0 Hz	
	Resolution			0.01Hz	
	Accuracy(*6)			± 0.01% F.S	
DC OUTPUT	Max. Power			472.5kW/315kW(Split phase)	540kW/360kW(Split phase)
	Per Phase/Channel			157.5kW	180kW
DC VOLTAGE	Range			±495V_{DC}, ±990V_{DC}(Split phase) Option : ±565V_{DC}, ±1130V_{DC}(Split phase)	
	Resolution			0.1V	
	Setting Accuracy			± (0.1 % of setting + 0.2% F.S.)	
MAX. DC CURRENT	Range			2268A(1Ø)/756A(3Ø/Split)	2592A(1Ø)/864A(3Ø/Split)
HARMONIC SYNTHESIS FUNCTION	up to 50 Harmonic orders @ 50/60Hz fundamental frequency				
REGENERATIVE FUNCTION	Current Total Harmonic Distortion (iTHD)(*7)			<9%(Typical)	<9%(Typical)
	Power Factor(*8)			>0.97(Typical)	
CURRENT LIMIT FUNCTION	Setting	Range	1Ø	45 - 3024A	45 - 3456A
			3Ø/Split phase	15 - 1008A	15 - 1152A
		Resolution		1A	
		Accuracy		± (2.0% of setting + 0.5% F.S.)	
	Response Time			< 0.5s	

Item			RPS-9470	RPS-9540
AC Load Function				
INPUT	Phase		3Ø3W+PE	
	Voltage		380 - 480 VL-L ± 10%	
	Frequency		47 - 63Hz	
	Max. Current		831A/phase (380 - 480 VL-L ± 10%)	950A/phase (380 - 480 VL-L ± 10%)
	Power Factor(*9)		0.95(Typical)	
Operating Range	Power Rating		472.5kVA(3Ø/1Ø)	540kVA(3Ø/1Ø)
	Current(rms)		1008A(3Ø) / 3024A(1Ø)	1152A(3Ø) / 3456A(1Ø)
	Current(peak)		3024A(3Ø) / 9072A(1Ø)	3456A(3Ø) / 10368A(1Ø)
	Voltage		AC Mode : 30 - 350V, Option: 30 - 400V DC Mode : 20 - 495V, Option: 20 - 565V	
Operating Frequency	Range		DC, 30 – 150 Hz	
CC Mode (each phase)	Current	Range	0 - 1008A	0 - 1152A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
	Crest Factor	Range / Resolution	1.414 - 3.000 / 0.001	
	Power Factor	Range	0.593 - 1.000(type=PF) / 0.202 - 1.000(type=CFPF)	
		Resolution / Accuracy(*11)	0.001 / ± 1% F.S.	
CP/CS Mode (each phase)	Power	Range	0.0 - 472.5kW, 0.0 - 472.5kVA	0.0 - 540kW, 0.0 - 540kVA
		Resolution	0.1kW / 0.1kVA	
		Accuracy(*12)	± (0.3% of reading + 0.3% F.S.)	
	Crest Factor	Range / Resolution	1.414 - 3.000 / 0.001	
	Power Factor	Range	0.593 - 1.000(type=PF) / 0.202 - 1.000(type=CFPF)	
		Resolution / Accuracy(*11)	0.001 / ± 1% F.S.	
CR Mode (each phase)	Resistance	Range	0.030 - 50Ω	0.026 - 43Ω
		Resolution / Accuracy(*10)	0.001Ω / ± (0.3% of reading + 0.5% F.S.)	
CZ Mode (each phase)	Impedance	R1 Range / R1 Resolution	0.01 - 1000.00Ω / 0.01Ω	
		R2 Range / R2 Resolution	0.01 - 1000.00Ω / 0.01Ω	
		R3 Range / R3 Resolution	0.01 - 1000.00Ω / 0.01Ω	
		C Range / C Resolution	0 - 1000.000mF / 0.001mF	
		L Range / L Resolution	0 - 1000.000mH / 0.001mH	
CC Phase Lead/Lag Mode (each phase)	Current	Range	0 - 1008A	0 - 1152A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
	Phase	Range	-90.0deg ~ +90.0deg (Current source mode: +90.1deg ~ +180deg & -90.1deg ~ -180deg)	
		Resolution / Accuracy(*13)	0.1deg / ± 1% F.S.	
CP/CS Phase Lead/Lag Mode (each phase)	Power	Range	0.0 - 472.5kW, 0.0 - 472.5kVA	0.0 - 540kW, 0.0 - 540kVA
		Resolution	0.1kW / 0.1kVA	
		Accuracy(*12)	± (0.3% of reading + 0.3% F.S.)	
	Phase	Range	-90.0deg ~ +90.0deg (Current source mode: +90.1deg ~ +180deg & -90.1deg ~ -180deg)	
		Resolution / Accuracy(*13)	0.1deg / ± 1% F.S.	

Item			RPS-9470	RPS-9540
DC Load Function				
CC Mode (each phase)	Current	Range	0 - 756A	0 - 864A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
		Accuracy(*10)	± (0.3% of reading + 0.5% F.S.)	
CV Mode (each phase)	Voltage	Range	20 - 495V	
		Resolution / Accuracy	0.01V / ± (0.1% of reading + 0.2% F.S.) at Voltage > 5V	
CP Mode (each phase)	Power	Range	0.0 - 472.5kW	0.0 - 540kW
		Resolution / Accuracy(*12)	0.1kW / ± (0.3% of reading + 0.3% F.S.)	
CR Mode (each phase)	Resistance	Range	0.026 - 93Ω	0.023 - 82Ω
		Resolution / Accuracy(*10)	0.001Ω / ± (0.3% of reading + 0.5% F.S.)	
Advanced Mode	Mode(each phase)		CCD, CRD	

Item				RPS-9470	RPS-9540
MEASUREMENT	Voltage (AC)	Range		0 - 350VL-N, 0 - 606VL-L, 0 - 700VL-L(Split) Option: 0 - 400VL-N, 0 - 692VL-L, 0 - 800VL-L(Split)	
		Resolution / Accuracy		0.01V / ± (0.1% of reading + 0.2% F.S.) at Voltage > 5V	
MEASUREMENT	Voltage (DC)	Range		±495VDC, ±990VDC (Split phase) / Option : ±565VDC, ±1130VDC (Split phase)	
		Resolution / Accuracy		0.01V / ± (0.1 % of reading + 0.2% F.S.) at Voltage > 5V	
	Current (AC,DC)	Range	1Ø	0.0 - 3024.0A	0.0 - 3456.0A
			3Ø/Split phase	0.0 - 1008.0A	0.0 - 1152.0A
		Resolution		0.1A at 0.0 - 999.9A / 1A at Current ≧ 1000A	
		Accuracy		± (0.4% of reading + 0.3% F.S.)	
	Peak Current	Range	1Ø	0.0 - 9072.0Apk	0.0 - 10368.0Apk
			3Ø/Split phase	0.0 - 3024.0Apk	0.0 - 3456.0Apk
		Resolution		0.1A at 0.0 - 999.9Apk / 1A at Current ≧ 1000Apk	
		Accuracy		± (0.4% of reading + 0.6% F.S.)	
	Power (AC,DC)	Range	1Ø	0.00kW - 472.50kW	0.00kW - 540.00kW
			3Ø	0.00kW - 157.50kW	0.00kW - 180.00kW
			Split phase	0.00kW - 315.00kW	0.00kW - 360.00kW
		Resolution		0.01kW at 0.00 - 99.99kW / 0.1kW at Power ≧100.0kW	
		Accuracy		± (0.4% of reading + 0.4% F.S.)	
	Power Apparent (VA)	Range	1Ø	0.00kVA - 472.50kVA	0.00kVA - 540.00kVA
			3Ø	0.00kVA - 157.50kVA	0.00kVA - 180.00kVA
			Split phase	0.00kVA - 315.00kVA	0.00kVA - 360.00kVA
		Resolution		0.01kVA at 0.00 - 99.99kVA / 0.1kVA at Power ≧100.0kVA	
		Accuracy		V×A, Calculated value	
	Power Factor	Range / Resolution		0 -1.000 / 0.001	
		Accuracy		W / VA ,Calculated and displayed to three significant digits	
	Crest Factor	Range / Resolution		0 - 10.00 / 0.01	
		Accuracy		Ap / A ,Calculated and displayed to two significant digits	
GENERAL	Interface			USB, Ethernet, External I/O(DB25), GPIB Option: CAN Bus	
	Display			Full Color, Touch LCD Display, 5” Diagonal size, 800 x 400 Pixels resolution	
	Protection			OCP, OVP, OPP, OTP, SHORT, FAN	
	V Sense			Yes	
	Efficiency (*9)			90% (Typical)	
	Dimension(H x W x D)			2045 x 1800 x 1100mm 80.51 x 70.87 x 43.31 inch (3x 42U Cabinets coupled)	2045 x 1800 x 1100mm 80.51 x 70.87 x 43.31 inch (3x 42U Cabinets coupled)
	Weight			1860 kg / 4100.60 lbs	2040 kg / 4497.43 lbs
ENVIRONMENTAL	Cooling			Variable speed fan cooled, front intake, rear exhaust	
	Operating / Storage Temperature			0 to 40°C (32°F to 104°F) / -40 to 85°C (-40°F to 185°F)	
	Altitude / Operating Humidity(*10)			2000m (6500 feet) /0% to 95% RAH	
REGULATORY COMPLIANCE	Safety			Low Voltage Directive 2014/30/EU, EN 61010-1:2017	
	EMC			CE marked for EMC Directive 2014/30/EU per EN 61326-1:2013 Class A	
	CE Mark LVD Categories			Installation Overvoltage Category: II; Pollution Degree: 2; indoor use only.	

Note:

*1 Tested on input voltage 380Vac with full output power
*2 Maximum distortion is tested on output voltage 350Vac with full output power under linear load
*3 With respect to changes in the rated range of input voltage.
*4 Load regulation is tested by sine wave and remote sense
*5 At working voltage 125V
*6 When the output voltage is greater than 40V
*7 Current total harmonic distortion is tested on input voltage 380Vac with full output power
*8 Power factor is tested on input voltage 220Vac with full output power
*10 The operating current must be maintained at greater than 1% of the rated maximum current.
*11 The Power Factor (PF) setting accuracy is specified under an operating current > 1% of the rated maximum current, a sinusoidal input voltage (Vthd < 0.6% @ 30 ~ 100 Hz), and a CF setting of 1.414.
*12 The operating power must be maintained at greater than 0.5% of the rated maximum power.
*13 The Phase setting accuracy(F.S.=180deg) is specified under an operating current > 1% of the rated maximum current, a sinusoidal input voltage (Vthd < 0.6% @ 30 ~ 150 Hz), and a CF setting of 1.414.
*14 Efficiency is tested on input voltage 380V and output voltage 250Vac with full output power under linear load
*15 In the state of non-condensing

The above specifications are subject to change without prior notice.

Technical Specification

Item				RPS-9600	RPS-9670
AC INPUT	Phase			3Ø3W+PE	
	Voltage			380 - 480 V_{L-L} ± 10%	
	Frequency			47 - 63Hz	
	Max. Current			1279A/phase (380 - 480 VL-L ± 10%)	1421A/phase (380 - 480 VL-L ± 10%)
	Power Factor(*1)			0.99(Typical)	
AC OUTPUT	Phase Modes			3Ø, 1Ø or Split phase selectable	
	Max. Power			607.5kVA/405kVA(Split phase)	675kVA/450kVA(Split phase)
	Per Phase/Channel			202.5kVA	225kVA
AC VOLTAGE	Range			0 - 350V_{L-N}, 0 - 606V_{L-L}, 0 - 700V_{L-L}(Split phase) Option : 0 - 400V_{L-N}, 0 - 692V_{L-L}, 0 - 800V_{L-L}(Split phase)	
	Resolution			0.1V	
	Setting Accuracy			± (0.1% of setting + 0.2% F.S.)	
	Total Harmonic Distortion (THD)(*2)			<0.4% @ 50/60Hz <0.8% @ 30 - 150Hz	
	Line Regulation (*3)			± 0.1%	
	Load Regulation (*4)			± 0.2%	
	Phase Angle	Range		0 - 359.9˚	
		Resolution		0.1˚	
MAX. AC CURRENT	RMS(*5)			3888A(1Ø)/1296A(3Ø/Split)	4320A(1Ø)/1440A(3Ø/Split)
	Peak			11664A(1Ø)/3888A(3Ø/Split)	12960A(1Ø)/4320A(3Ø/Split)
	Crest Factor			3	3
FREQUENCY	Range			DC, 30.00 - 150.0 Hz Option : DC, 30.00 - 1000.0 Hz	
	Resolution			0.01Hz	
	Accuracy(*6)			± 0.01% F.S	
DC OUTPUT	Max. Power			607.5kW/405kW(Split phase)	675kW/450kW(Split phase)
	Per Phase/Channel			202.5kW	225kW
DC VOLTAGE	Range			±495V_{DC}, ±990V_{DC}(Split phase) Option : ±565V_{DC}, ±1130V_{DC}(Split phase)	
	Resolution			0.1V	
	Setting Accuracy			± (0.1 % of setting + 0.2% F.S.)	
MAX. DC CURRENT	Range			2916A(1Ø)/972A(3Ø/Split)	3240A(1Ø)/1080A(3Ø/Split)
HARMONIC SYNTHESIS FUNCTION	up to 50 Harmonic orders @ 50/60Hz fundamental frequency				
REGENERATIVE FUNCTION	Current Total Harmonic Distortion (iTHD)(*7)			<9%(Typical)	<9%(Typical)
	Power Factor(*8)			>0.97(Typical)	
CURRENT LIMIT FUNCTION	Setting	Range	1Ø	45 - 3888A	60 - 4320A
			3Ø/Split phase	15 - 1296A	20 - 1440A
		Resolution		1A	
		Accuracy		± (2.0% of setting + 0.5% F.S.)	
	Response Time			< 0.5s	

Item			RPS-9600	RPS-9670
AC Load Function				
INPUT	Phase		3Ø3W+PE	
	Voltage		380 - 480 VL-L ± 10%	
	Frequency		47 - 63Hz	
	Max. Current		1069A/phase (380 - 480 VL-L ± 10%)	1187A/phase (380 - 480 VL-L ± 10%)
	Power Factor(*9)		0.95(Typical)	
Operating Range	Power Rating		607.5kVA(3Ø/1Ø)	675kVA(3Ø/1Ø)
	Current(rms)		1296A(3Ø) / 3888A(1Ø)	1440A(3Ø) / 4320A(1Ø)
	Current(peak)		3888A(3Ø) / 11664A(1Ø)	4320A(3Ø) / 12960A(1Ø)
	Voltage		AC Mode : 30 - 350V, Option: 30 - 400V DC Mode : 20 - 495V, Option: 20 - 565V	
Operating Frequency	Range		DC, 30 - 150 Hz	
CC Mode (each phase)	Current	Range	0 - 1296A	0 - 1440A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
	Crest Factor	Range / Resolution	1.414 - 3.000 / 0.001	
	Power Factor	Range	0.593 - 1.000(type=PF) / 0.202 - 1.000(type=CFPF)	
		Resolution / Accuracy(*11)	0.001 / ± 1% F.S.	
CP/CS Mode (each phase)	Power	Range	0.0 - 607.5kW, 0.0 - 607.5kVA	0.0 - 675kW, 0.0 - 675kVA
		Resolution	0.1kW / 0.1kVA	
		Accuracy(*12)	± (0.3% of reading + 0.3% F.S.)	
	Crest Factor	Range / Resolution	1.414 - 3.000 / 0.001	
	Power Factor	Range	0.593 - 1.000(type=PF) / 0.202 - 1.000(type=CFPF)	
		Resolution / Accuracy(*11)	0.001 / ± 1% F.S.	
CR Mode (each phase)	Resistance	Range	0.023 - 39Ω	0.021 - 35Ω
		Resolution	0.001Ω	
		Accuracy(*10)	± (0.3% of reading + 0.5% F.S.)	
CZ Mode (each phase)	Impedance	R1 Range / R1 Resolution	0.01 - 1000.00Ω / 0.01Ω	
		R2 Range / R2 Resolution	0.01 - 1000.00Ω / 0.01Ω	
		R3 Range / R3 Resolution	0.01 - 1000.00Ω / 0.01Ω	
		C Range / C Resolution	0 - 1000.000mF / 0.001mF	
		L Range / L Resolution	0 - 1000.000mH / 0.001mH	
CC Phase Lead/Lag Mode (each phase)	Current	Range	0 - 1296A	0 - 1440A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
	Phase	Range	-90.0deg ~ +90.0deg (Current source mode: +90.1deg ~ +180deg & -90.1deg ~ -180deg)	
		Resolution / Accuracy(*13)	0.1deg / ± 1% F.S.	
CP/CS Phase Lead/Lag Mode (each phase)	Power	Range	0.0 - 607.5kW, 0.0 - 607.5kVA	0.0 - 675kW, 0.0 - 675kVA
		Resolution	0.1kW / 0.1kVA	
		Accuracy(*12)	± (0.3% of reading + 0.3% F.S.)	
	Phase	Range	-90.0deg ~ +90.0deg (Current source mode: +90.1deg ~ +180deg & -90.1deg ~ -180deg)	
		Resolution / Accuracy(*13)	0.1deg / ± 1% F.S.	

Item			RPS-9600	RPS-9670
DC Load Function				
CC Mode (each phase)	Current	Range	0 - 972A	0 - 1080A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
		Accuracy(*10)	± (0.3% of reading + 0.5% F.S.)	
CV Mode (each phase)	Voltage	Range	20 - 495V	
		Resolution / Accuracy	0.01V / ± (0.1% of reading + 0.2% F.S.) at Voltage > 5V	
CP Mode (each phase)	Power	Range	0.0 - 607.5kW	0.0 - 675kW
		Resolution / Accuracy(*12)	0.1kW / ± (0.3% of reading + 0.3% F.S.)	
CR Mode (each phase)	Resistance	Range	0.021 - 73Ω	0.019 - 65Ω
		Resolution / Accuracy(*10)	0.001Ω / ± (0.3% of reading + 0.5% F.S.)	
Advanced Mode	Mode(each phase)		CCD, CRD	

Item				RPS-9600	RPS-9670
MEASUREMENT	Voltage (AC)	Range		0 - 350V_{L-N}, 0 - 606V_{L-L}, 0 - 700V_{L-L}(Split) Option: 0 - 400V_{L-N}, 0 - 692V_{L-L}, 0 - 800V_{L-L}(Split)	
		Resolution / Accuracy		0.01V / ± (0.1% of reading + 0.2% F.S.) at Voltage > 5V	
MEASUREMENT	Voltage (DC)	Range		±495V_{DC}, ±990V_{DC} (Split phase) / Option : ±565V_{DC}, ±1130V_{DC} (Split phase)	
		Resolution / Accuracy		0.01V / ± (0.1 % of reading + 0.2% F.S.) at Voltage > 5V	
	Current (AC,DC)	Range	1Ø	0.0 - 3888.0A	0.0 - 4320.0A
			3Ø/Split phase	0.0 - 1296.0A	0.0 - 1440.0A
		Resolution		0.1A at 0.0 - 999.9A / 1A at Current ≧ 1000A	
		Accuracy		± (0.4% of reading + 0.3% F.S.)	
	Peak Current	Range	1Ø	0.0 - 11664.0Apk	0.0 - 12960.0Apk
			3Ø/Split phase	0.0 - 3888.0Apk	0.0 - 4320.0Apk
		Resolution		0.1A at 0.0 - 999.9Apk / 1A at Current ≧ 1000Apk	
		Accuracy		± (0.4% of reading + 0.6% F.S.)	
	Power (AC,DC)	Range	1Ø	0.00kW - 607.50kW	0.00kW - 675.00kW
			3Ø	0.00kW - 202.50kW	0.00kW - 225.00kW
			Split phase	0.00kW - 405.00kW	0.00kW - 450.00kW
		Resolution		0.01kW at 0.00 - 99.99kW / 0.1kW at Power ≧100.0kW	
		Accuracy		± (0.4% of reading + 0.4% F.S.)	
	Power Apparent (VA)	Range	1Ø	0.00kVA - 607.50kVA	0.00kVA - 675.00kVA
			3Ø	0.00kVA - 202.50kVA	0.00kVA - 225.00kVA
			Split phase	0.00kVA - 405.00kVA	0.00kVA - 450.00kVA
		Resolution		0.01kVA at 0.00 - 99.99kVA / 0.1kVA at Power ≧100.0kVA	
		Accuracy		V×A, Calculated value	
	Power Factor	Range / Resolution		0 -1.000 / 0.001	
		Accuracy		W / VA ,Calculated and displayed to three significant digits	
	Crest Factor	Range / Resolution		0 - 10.00 / 0.01	
		Accuracy		Ap / A ,Calculated and displayed to two significant digits	
GENERAL	Interface			USB, Ethernet, External I/O(DB25), GPIB Option: CAN Bus	
	Display			Full Color, Touch LCD Display, 5” Diagonal size, 800 x 400 Pixels resolution	
	Protection			OCP, OVP, OPP, OTP, SHORT, FAN	
	V Sense			Yes	
	Efficiency (*9)			90% (Typical)	
	Dimension(H x W x D)			2045 x 1800 x 1100mm 80.51 x 70.87 x 43.31 inch (3x 42U Cabinets coupled)	2045 x 2400 x 1100mm 80.51 x 94.49 x 43.31 inch (4x 42U Cabinets coupled)
	Weight			2220 kg / 4894.26 lbs	2600 kg / 5732.02 lbs
ENVIRONMENTAL	Cooling			Variable speed fan cooled, front intake, rear exhaust	
	Operating / Storage Temperature			0 to 40°C (32°F to 104°F) / -40 to 85°C (-40°F to 185°F)	
	Altitude / Operating Humidity(*10)			2000m (6500 feet) /0% to 95% RAH	
REGULATORY COMPLIANCE	Safety			Low Voltage Directive 2014/30/EU, EN 61010-1:2017	
	EMC			CE marked for EMC Directive 2014/30/EU per EN 61326-1:2013 Class A	
	CE Mark LVD Categories			Installation Overvoltage Category: II; Pollution Degree: 2; indoor use only.	

Note:

*1 Tested on input voltage 380Vac with full output power
*2 Maximum distortion is tested on output voltage 350Vac with full output power under linear load
*3 With respect to changes in the rated range of input voltage.
*4 Load regulation is tested by sine wave and remote sense
*5 At working voltage 125V
*6 When the output voltage is greater than 40V
*7 Current total harmonic distortion is tested on input voltage 380Vac with full output power
*8 Power factor is tested on input voltage 220Vac with full output power
*10 The operating current must be maintained at greater than 1% of the rated maximum current.
*11 The Power Factor (PF) setting accuracy is specified under an operating current > 1% of the rated maximum current, a sinusoidal input voltage (Vthd < 0.6% @ 30 ~ 100 Hz), and a CF setting of 1.414.
*12 The operating power must be maintained at greater than 0.5% of the rated maximum power.
*13 The Phase setting accuracy(F.S.=180deg) is specified under an operating current > 1% of the rated maximum current, a sinusoidal input voltage (Vthd < 0.6% @ 30 ~ 150 Hz), and a CF setting of 1.414.
*14 Efficiency is tested on input voltage 380V and output voltage 250Vac with full output power under linear load
*15 In the state of non-condensing

The above specifications are subject to change without prior notice.

Technical Specification

Item				RPS-9740	RPS-9800
AC INPUT	Phase			3Ø3W+PE	
	Voltage			380 - 480 V_{L-L} ± 10%	
	Frequency			47 - 63Hz	
	Max. Current			1563A/phase (380 - 480 VL-L ± 10%)	1705A/phase (380 - 480 VL-L ± 10%)
	Power Factor(*1)			0.99(Typical)	
AC OUTPUT	Phase Modes			3Ø, 1Ø or Split phase selectable	
	Max. Power			742.5kVA/495kVA(Split phase)	810kVA/540kVA(Split phase)
	Per Phase/Channel			247.5kVA	270kVA
AC VOLTAGE	Range			0 - 350V_{L-N}, 0 - 606V_{L-L}, 0 - 700V_{L-L}(Split phase) Option : 0 - 400V_{L-N}, 0 - 692V_{L-L}, 0 - 800V_{L-L}(Split phase)	
	Resolution			0.1V	
	Setting Accuracy			± (0.1% of setting + 0.2% F.S.)	
	Total Harmonic Distortion (THD)(*2)			<0.4% @ 50/60Hz <0.8% @ 30 - 150Hz	
	Line Regulation (*3)			± 0.1%	
	Load Regulation (*4)			± 0.2%	
	Phase Angle		Range	0 - 359.9˚	
			Resolution	0.1˚	
MAX. AC CURRENT	RMS(*5)			4752A(1Ø)/1584A(3Ø/Split)	5184A(1Ø)/1728A(3Ø/Split)
	Peak			14256A(1Ø)/4752A(3Ø/Split)	15552A(1Ø)/5184A(3Ø/Split)
	Crest Factor			3	3
FREQUENCY	Range			DC, 30.00 - 150.0 Hz Option : DC, 30.00 - 1000.0 Hz	
	Resolution			0.01Hz	
	Accuracy(*6)			± 0.01% F.S	
DC OUTPUT	Max. Power			742.5kW/495kW(Split phase)	810kW/540kW(Split phase)
	Per Phase/Channel			247.5kW	270kW
DC VOLTAGE	Range			±495V_{DC}, ±990V_{DC}(Split phase) Option : ±565V_{DC}, ±1130V_{DC}(Split phase)	
	Resolution			0.1V	
	Setting Accuracy			± (0.1 % of setting + 0.2% F.S.)	
MAX. DC CURRENT	Range			3564A(1Ø)/1188A(3Ø/Split)	3888A(1Ø)/1296A(3Ø/Split)
HARMONIC SYNTHESIS FUNCTION	up to 50 Harmonic orders @ 50/60Hz fundamental frequency				
REGENERATIVE FUNCTION	Current Total Harmonic Distortion (iTHD)(*7)			<9%(Typical)	<9%(Typical)
	Power Factor(*8)			>0.97(Typical)	
CURRENT LIMIT FUNCTION	Setting	Range	1Ø	60 - 4752A	60 - 5184A
			3Ø/Split phase	20 - 1584A	20 - 1728A
		Resolution		1A	
		Accuracy		± (2.0% of setting + 0.5% F.S.)	
	Response Time			< 0.5s	

Item			RPS-9740	RPS-9800
AC Load Function				
INPUT	Phase		3Ø3W+PE	
	Voltage		380 - 480 VL-L ± 10%	
	Frequency		47 - 63Hz	
	Max. Current		1306A/phase (380 - 480 VL-L ± 10%)	1425A/phase (380 - 480 VL-L ± 10%)
	Power Factor(*9)		0.95(Typical)	
Operating Range	Power Rating		742.5kVA(3Ø/1Ø)	810kVA(3Ø/1Ø)
	Current(rms)		1584A(3Ø) / 4752A(1Ø)	1728A(3Ø) / 5184A(1Ø)
	Current(peak)		4752A(3Ø) / 14256A(1Ø)	5184A(3Ø) / 15552A(1Ø)
	Voltage		AC Mode : 30 - 350V, Option: 30 - 400V DC Mode : 20 - 495V, Option: 20 - 565V	
Operating Frequency	Range		DC, 30 – 150 Hz	
CC Mode (each phase)	Current	Range	0 - 1584A	0 - 1728A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
	Crest Factor	Range / Resolution	1.414 - 3.000 / 0.001	
	Power Factor	Range	0.593 - 1.000(type=PF) / 0.202 - 1.000(type=CFPF)	
		Resolution / Accuracy(*11)	0.001 / ± 1% F.S.	
CP/CS Mode (each phase)	Power	Range	0.0 - 742.5kW, 0.0 - 742.5kVA	0.0 - 810kW, 0.0 - 810kVA
		Resolution	0.1kW / 0.1kVA	
		Accuracy(*12)	± (0.3% of reading + 0.3% F.S.)	
	Crest Factor	Range	1.414 - 3.000	
		Resolution	0.001	
	Power Factor	Range	0.593 - 1.000(type=PF) / 0.202 - 1.000(type=CFPF)	
		Resolution / Accuracy(*11)	0.001 / ± 1% F.S.	
CR Mode (each phase)	Resistance	Range	0.019 - 32Ω	0.017 - 29Ω
		Resolution / Accuracy(*10)	0.001Ω / ± (0.3% of reading + 0.5% F.S.)	
CZ Mode (each phase)	Impedance	R1 Range / R1 Resolution	0.01 - 1000.00Ω / 0.01Ω	
		R2 Range / R2 Resolution	0.01 - 1000.00Ω / 0.01Ω	
		R3 Range / R3 Resolution	0.01 - 1000.00Ω / 0.01Ω	
		C Range / C Resolution	0 - 1000.000mF / 0.001mF	
		L Range / L Resolution	0 - 1000.000mH / 0.001mH	
CC Phase Lead/Lag Mode (each phase)	Current	Range	0 - 1584A	0 - 1728A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
	Phase	Range	-90.0deg ~ +90.0deg (Current source mode: +90.1deg ~ +180deg & -90.1deg ~ -180deg)	
		Resolution / Accuracy(*13)	0.1deg / ± 1% F.S.	
CP/CS Phase Lead/Lag Mode (each phase)	Power	Range	0.0 - 742.5kW, 0.0 - 742.5kVA	0.0 - 810kW, 0.0 - 810kVA
		Resolution	0.1kW / 0.1kVA	
		Accuracy(*12)	± (0.3% of reading + 0.3% F.S.)	
	Phase	Range	-90.0deg ~ +90.0deg (Current source mode: +90.1deg ~ +180deg & -90.1deg ~ -180deg)	
		Resolution / Accuracy(*13)	0.1deg / ± 1% F.S.	

Item			RPS-9740	RPS-9800
DC Load Function				
CC Mode (each phase)	Current	Range	0 - 1188A	0 - 1296A
		Resolution / Accuracy(*10)	1A / ± (0.3% of reading + 0.5% F.S.)	
		Accuracy(*10)	± (0.3% of reading + 0.5% F.S.)	
CV Mode (each phase)	Voltage	Range	20 - 495V	
		Resolution / Accuracy	0.01V / ± (0.1% of reading + 0.2% F.S.) at Voltage > 5V	
CP Mode (each phase)	Power	Range	0.0 - 742.5kW	0.0 - 810kW
		Resolution / Accuracy(*12)	0.1kW / ± (0.3% of reading + 0.3% F.S.)	
CR Mode (each phase)	Resistance	Range	0.017 - 59Ω	0.015 - 54Ω
		Resolution / Accuracy(*10)	0.001Ω / ± (0.3% of reading + 0.5% F.S.)	
Advanced Mode	Mode(each phase)		CCD, CRD	

Item				RPS-9740	RPS-9800
MEASUREMENT	Voltage (AC)	Range		0 - 350VL-N, 0 - 606VL-L, 0 - 700VL-L(Split) Option: 0 - 400VL-N, 0 - 692VL-L, 0 - 800VL-L(Split)	
		Resolution / Accuracy		0.01V / ± (0.1% of reading + 0.2% F.S.) at Voltage > 5V	
MEASUREMENT	Voltage (DC)	Range		±495VDC, ±990VDC (Split phase) / Option : ±565VDC, ±1130VDC (Split phase)	
		Resolution / Accuracy		0.01V / ± (0.1 % of reading + 0.2% F.S.) at Voltage > 5V	
	Current (AC,DC)	Range	1Ø	0.0 - 4752.0A	0.0 - 5184.0A
			3Ø/Split phase	0.0 - 1584.0A	0.0 - 1728.0A
		Resolution		0.1A at 0.0 - 999.9A / 1A at Current ≧ 1000A	
		Accuracy		± (0.4% of reading + 0.3% F.S.)	
	Peak Current	Range	1Ø	0.0 - 14256.0Apk	0.0 - 15552.0Apk
			3Ø/Split phase	0.0 - 4752.0Apk	0.0 - 5184.0Apk
		Resolution		0.1A at 0.0 - 999.9Apk / 1A at Current ≧ 1000Apk	
		Accuracy		± (0.4% of reading + 0.6% F.S.)	
	Power (AC,DC)	Range	1Ø	0.00kW - 742.50kW	0.00kW - 810.00kW
			3Ø	0.00kW - 247.50kW	0.00kW - 270.00kW
			Split phase	0.00kW - 495.00kW	0.00kW - 540.00kW
		Resolution		0.01kW at 0.00 - 99.99kW / 0.1kW at Power ≧100.0kW	
		Accuracy		± (0.4% of reading + 0.4% F.S.)	
	Power Apparent (VA)	Range	1Ø	0.00kVA - 742.50kVA	0.00kVA - 810.00kVA
			3Ø	0.00kVA - 247.50kVA	0.00kVA - 270.00kVA
			Split phase	0.00kVA - 495.00kVA	0.00kVA - 540.00kVA
		Resolution		0.01kVA at 0.00 - 99.99kVA / 0.1kVA at Power ≧100.0kVA	
		Accuracy		V×A, Calculated value	
	Power Factor	Range / Resolution		0 -1.000 / 0.001	
		Accuracy		W / VA ,Calculated and displayed to three significant digits	
	Crest Factor	Range / Resolution		0 - 10.00 / 0.01	
		Accuracy		Ap / A ,Calculated and displayed to two significant digits	
GENERAL	Interface			USB, Ethernet, External I/O(DB25), GPIB Option: CAN Bus	
	Display			Full Color, Touch LCD Display, 5” Diagonal size, 800 x 400 Pixels resolution	
	Protection			OCP, OVP, OPP, OTP, SHORT, FAN	
	V Sense			Yes	
	Efficiency (*9)			90% (Typical)	
	Dimension(H x W x D)			2045 x 2400 x 1100mm 80.51 x 94.49 x 43.31 inch (4x 42U Cabinets coupled)	2045 x 2400 x 1100mm 80.51 x 94.49 x 43.31 inch (4x 42U Cabinets coupled)
	Weight			2780 kg / 6128.85 lbs	2960 kg / 6525.68 lbs
ENVIRONMENTAL	Cooling			Variable speed fan cooled, front intake, rear exhaust	
	Operating / Storage Temperature			0 to 40°C (32°F to 104°F) / -40 to 85°C (-40°F to 185°F)	
	Altitude / Operating Humidity(*10)			2000m (6500 feet) /0% to 95% RAH	
REGULATORY COMPLIANCE	Safety			Low Voltage Directive 2014/30/EU, EN 61010-1:2017	
	EMC			CE marked for EMC Directive 2014/30/EU per EN 61326-1:2013 Class A	
	CE Mark LVD Categories			Installation Overvoltage Category: II; Pollution Degree: 2; indoor use only.	

Note:

*1 Tested on input voltage 380Vac with full output power
*2 Maximum distortion is tested on output voltage 350Vac with full output power under linear load
*3 With respect to changes in the rated range of input voltage.
*4 Load regulation is tested by sine wave and remote sense
*5 At working voltage 125V
*6 When the output voltage is greater than 40V
*7 Current total harmonic distortion is tested on input voltage 380Vac with full output power
*8 Power factor is tested on input voltage 220Vac with full output power
*10 The operating current must be maintained at greater than 1% of the rated maximum current.
*11 The Power Factor (PF) setting accuracy is specified under an operating current > 1% of the rated maximum current, a sinusoidal input voltage (Vthd < 0.6% @ 30 ~ 100 Hz), and a CF setting of 1.414.
*12 The operating power must be maintained at greater than 0.5% of the rated maximum power.
*13 The Phase setting accuracy(F.S.=180deg) is specified under an operating current > 1% of the rated maximum current, a sinusoidal input voltage (Vthd < 0.6% @ 30 ~ 150 Hz), and a CF setting of 1.414.
*14 Efficiency is tested on input voltage 380V and output voltage 250Vac with full output power under linear load
*15 In the state of non-condensing

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Model Configuration

Model	Output Voltage Vac		Output Current (Aac)		Output Power (Pac)	Phase	Height
	V L-N	V L-L	Arms(1Ø)	Arms(3Ø)			
RPS-9200	350V	606V	1296A	432A	202.5kVA	3Ø,1Ø,Split phase	42U
RPS-9270	350V	606V	1728A	576A	270kVA	3Ø,1Ø,Split phase	42U*2
RPS-9330	350V	606V	2160A	720A	337.5kVA	3Ø,1Ø,Split phase	42U*2
RPS-9400	350V	606V	2592A	864A	405kVA	3Ø,1Ø,Split phase	42U*2
RPS-9470	350V	606V	3024A	1008A	472.5kVA	3Ø,1Ø,Split phase	42U*3
RPS-9540	350V	606V	3456A	1152A	540kVA	3Ø,1Ø,Split phase	42U*3
RPS-9600	350V	606V	3888A	1296A	607.5kVA	3Ø,1Ø,Split phase	42U*3
RPS-9670	350V	606V	4320A	1440A	675kVA	3Ø,1Ø,Split phase	42U*4
RPS-9740	350V	606V	4752A	1584A	742.5kVA	3Ø,1Ø,Split phase	42U*4
RPS-9800	350V	606V	5184A	1728A	810kVA	3Ø,1Ø,Split phase	42U*4

Ordering Information

RPS – 9200 G – D – 0 – 0

Series

Regenerative Power System

Power

200: 202.5kVA

400: 405kVA

600: 607.5kVA

Configuration

S : AC/DC Source

G : Grid Simulator

L : AC/DC Load

B : Grid Simulator + AC/DC Load

Input

D: 380–480 VL-L

Optional Output Voltage

0 : Standard(350 VL-N)

1 : HV 400 VL-N(*)

Optional Output Frequency

0 : Standard(30 - 150Hz)

1 : HF 30 - 1000Hz(*)

***** Special specifications, please contact the INFINIPOWER Tech. office or your local distributor

Accessories list

Typical Delivery Items	Optional accessories
■ Regenerative Power System ■ USB cable (Type A to Type B) (5m) ■ LAN cable CAT5E(5m) ■ DB25 adapter board (for I/O signal) ■ Test Report	■ Parallel cable (Display port) ■ CAN Bus interface card / CAN Bus cable(5m) ■ GPIB cable(5m) ■ DB25 (male to male) adapter ■ Output voltage calibration fixture(Remote sense cable) ■ RPS-9000 series input power cable(5m)

***** Special specifications, please contact the INFINIPOWER Tech. office or your local distributor

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英菲菱電源（INFINIPOWER）由資深電力電子工程師創立，結合超過 20 年的電力測試研發實力與精密工程，致力於打造關鍵任務（Mission-Critical）電力測試解決方案。每一套系統皆經過精心設計、嚴格驗證，並依循國際品質標準製造，確保卓越的測試精度、長期可靠性與一致的產品品質。從實驗室研發驗證到公用事業規模能源測試，INFINIPOWER 持續以值得信賴的技術協助客戶因應各種挑戰，實踐品牌承諾——Powering Trust, Driving Innovation（精準可靠，無限動力）。

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