

Integrated Power Racks for traditional and regenerative AC&DC Test Power Applications

Extended features for flexible integration and safety.

Dedicated for ADF, AFX, AGX, RGS and RLS Series.



Overview

- AC, AC&DC Power Supplies and Electronic Load Systems
- Dedicated for Pacific Power Source Series: AFX, ADF, AGX, RGS, RLS
- Traditional and regenerative applications
- 6 rack sizes from 15U to 37U
- Output Power Levels from 4,5kVA to 126kVA
- Higher Power on request
- Modular and scalable solutions, for plug-and-play power extension
- Built and tested according to EN60204-1
- CE compliant
- Designed, assembled, and tested in Germany

Fully Integrated Power Racks – Designed and Made by Experts for Experts.

Innovate the way you test.

Key Specifications

Pacific Power Source delivers fully configurable test systems engineered for high performance and reliability. From optimal unit selection to integrated cabinets, PDUs, and system options, all components are specified, assembled, and validated in-house - ensuring a seamless and ready to plug solution.



True Integration - Not just Assembly

Integrated design means less cabling, simpler installation, and quicker time to test.



Time & Cost Efficiency

Delivered as a pre-engineered system, saves days or weeks of setup time.



Designed for Flexibility

Configurable for single, split, or three-phase apps.



Scalable

Expand Power according to your needs - with minimal modification.



Built-In Safety and Reliability

Integrated EPO, individual unit circuit breaker protection and safety provide peace of mind.

Versatile Rack Systems for High Power Applications

The IPR Series are power rack systems dedicated to the integration of **Pacific Power Source AC, AC&DC power supplies and electronic loads from the AFX, ADF, AGX, RGS and RLS Series**. The variety of rack systems is suitable for the integration of 1 to 6 units in parallel, covering a wide power range from 6kVA up to 144 kVA. Higher power levels up to 1MW on request.

All racks **integrate a dedicated PDU** (Power Distribution Unit) for the internal power distribution and safety management. The standard PDUs are available from 63A up to 250A with 400V 3-phase mains current, in 2 versions:

- **PDU Version 1** is a simple version equipped with a mains switch
- **PDU Version 2** has a redundant emergency stop feature, matching Safety Level D requirements



Applications

Pacific Power Source Series are designed to provide solutions for all traditional and regenerative AC and AC+DC Test Power Requirements. **The main areas of applications are:**



All Grid applications



Renewable Energy



Avionic and Defense



Emobility and Charging



Battery and Energy Storage

Choose the correct PPS Solution for your specific application:

- **ADF Series:** Ideal for burn in application where programmability and stability is required
- **AFX Series:** Programmable AC and DC power supplies with high performance, dedicated for qualification and development test, especially in the avionics and defense industries
- **Regenerative RGS Series:** Our regenerative grid simulators with load function, a market reference for all related grid tied test R&D and manufacturing environments

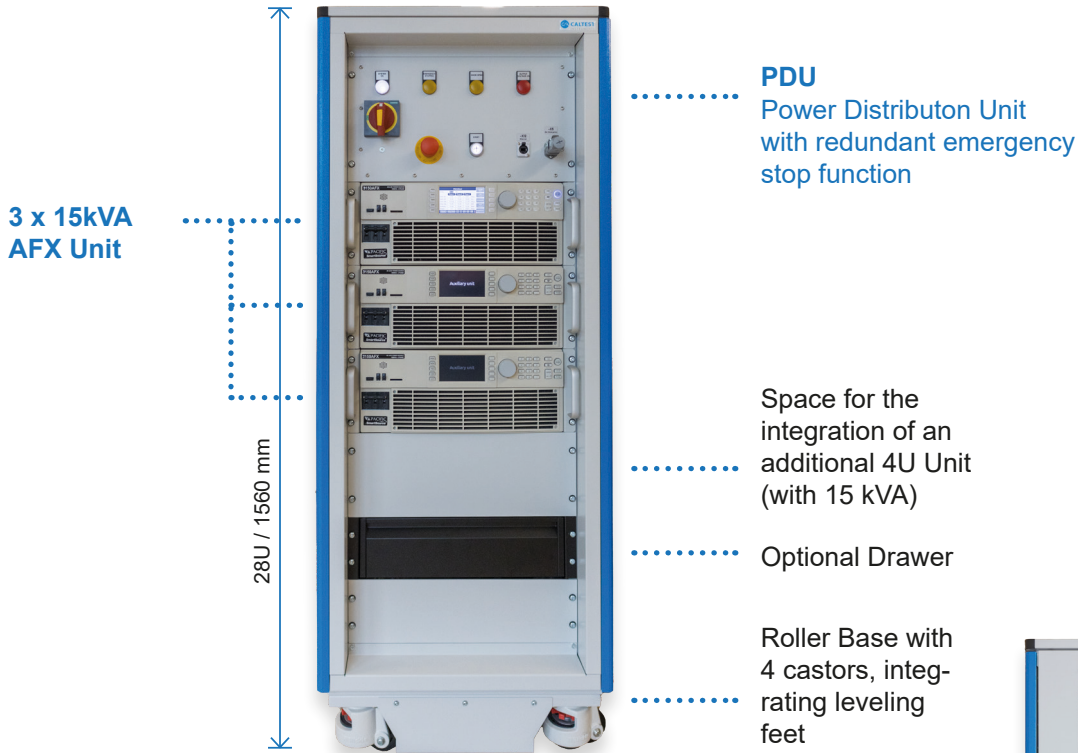


- **Regenerative RLS Series:** The most compact and capable regenerative electronic loads for emulating AC and DC load testing scenarios, with full regenerative capabilities
- **Regenerative AGX Series:** Our best in class product, a master piece of technology, leveraging full control of the 4Quadrant design for all AC and DC test applications

Typical System Integration IPR-R28-72kVA

60 kVA AFX System

Front View



IPR-R28-72kVA Rack

Rear View

Grid Door for Air Cooling

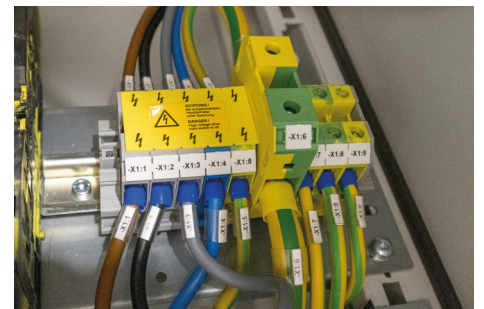
Centralized
Plate for all Input
and Output



Internal Power Distribution on Rail
System with individual protections



Phoenix RBO Connectors for DUT
Connections



Input Terminals

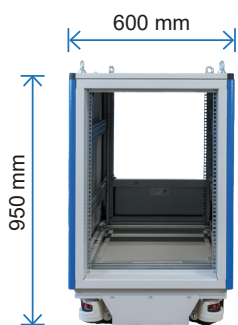
Available Racks (15U to 37U)

Six different rack/cabinet sizes in a robust industrial IP20 design are available for the integration of our AC & DC power sources and electronic loads. Built on a sturdy roller base with 4 castors integrating leveling feet, each rack offers easy mobility as well as secure stationary. The rack systems feature a **19" width and 1000 mm depth**, ensuring compatibility with standard equipment.

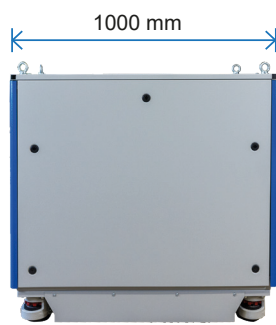
Available sizes range from a compact 15U model (1,000 mm height) to a tall 37U version (1950 mm total height).

Overview and mechanical data of available racks

Rack Type	W x D (mm)	Height (in mm)	Weight (empty) (kg)	Available U (for integration)
R 15	600 x 1000	950	90	15
R 18		1150	95	18
R 24		1350	104	24
R 28		1560	111	28
R 32		1750	118	32
R 37		1950	124	37



R15 - Front View



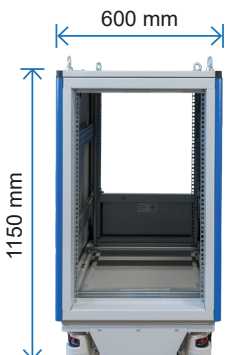
R15 - Side View



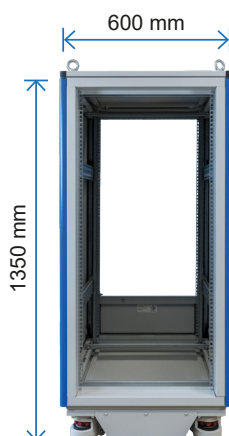
R15 - Rear View



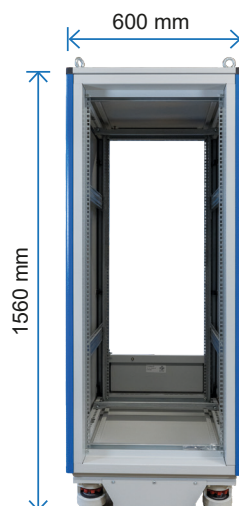
R15 - Front Side



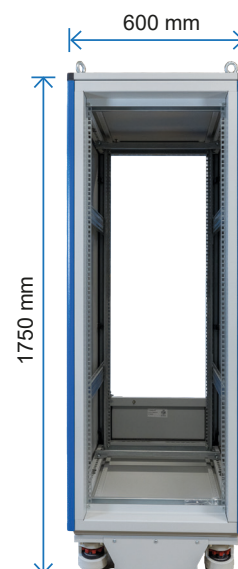
R18



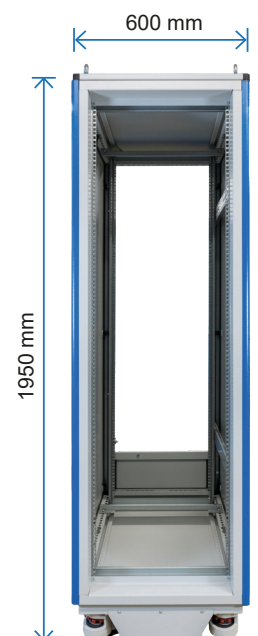
R24



R28



R32



R37

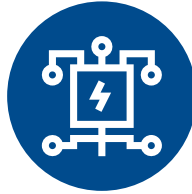
Energy and power distribution - Connections

Our IPR Series includes all the power distribution, protection and control elements for safe, reliable and future extensions.

**True Integration - Not
Just Assembly**



**Comprehensive Power
Distribution System**



**Plug n Play
Convenient Load
connection terminals**



PDU - Power Distribution Unit

The PDU (Power Distribution Unit) is essential in a rack system for power distribution and electrical safety.

Available PDU's range from 63A up to 250A in 2 versions:



Version 1 "V1"

Mains Switch only + light indicator "Mains Present"



Version 2 "V2"

with additional Emergency Circuit and Emergency Push Button, featuring redundant contactors and safety relays to match Safety Level D performance

PDUs Models Table

Model	Size	Input Voltage
PDU 63A V1	19"-4U	400V 3-phase 47-63Hz
PDU 125A V1	19"-6U	400V 3-phase 47-63Hz
PDU 200A V1	19"-6U	400V 3-phase 47-63Hz
PDU 250A V1	19"-9U	400V 3-phase 47-63Hz
PDU 63A V2	19"-4U	400V 3-phase 47-63Hz
PDU 125A V2	19"-6U	400V 3-phase 47-63Hz
PDU 200A V2	19"-6U	400V 3-phase 47-63Hz
PDU 250A V2	19"-9U	400V 3-phase 47-63Hz

Electrical distribution in the rack

The internal electrical distribution is made using a rail system providing the following benefits:

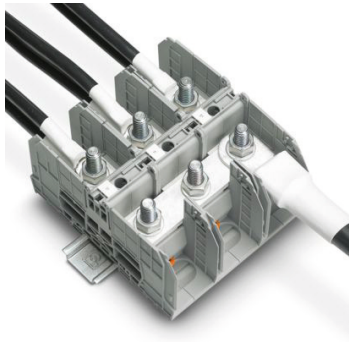
- Very compact controls and distributions - Perfect for applications with limited space
- Limited number of components - For efficient and simple installation
- Ideal for use with circuit breakers - Safe and standard-compliant protection of power circuits



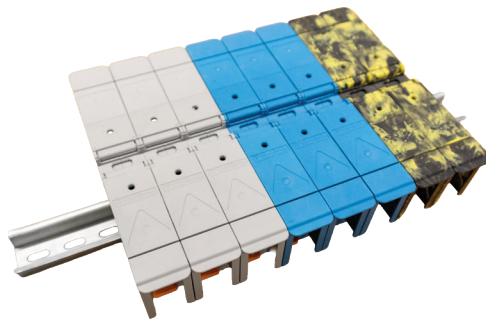
RBO Bolt Connection Terminals

DUT Connections are made in the bottom of the rack on Bolt Connection terminals type RBO from Phoenix Contact. This industrial solution offer an easy way for connecting cables being finger safe. Grey color is used for individual phases, Blue for Neutral Connections and yellow/green for Earth connection.

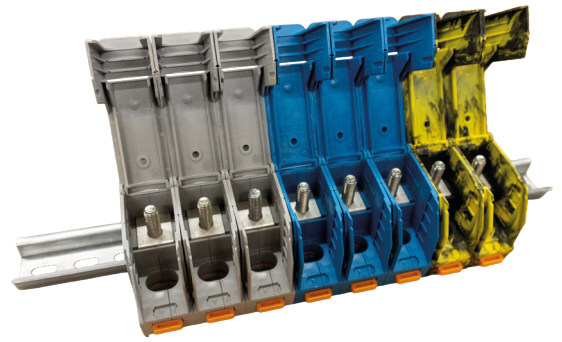
Standard RBO Terminal Block:



RBO8 RBO10



RBOs closed



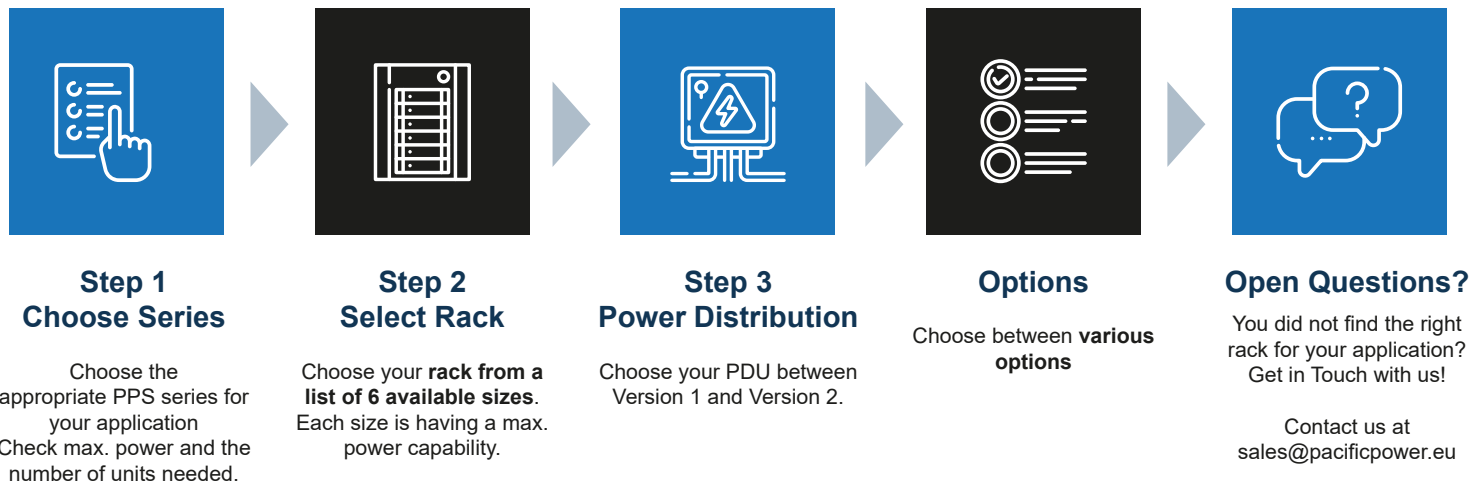
RBOs open

Rack Type	max. Current (A)	max. Voltage (V)	Cable cross-section in mm ²
RBO8	192	1000	70
RBO10	309	1000	150

The arrangement of the RBO allows, with the use of delivered metallic bridges, to easy parallel the phases and neutral connections for single phase mode operation or, if Neutral has to be Earthed for a specific application.

The Power of Choice

Easy configuration following our 5 steps configuration:



Reference Table for all IPR Models

Model Number	19" Rack	U inside	Max. Number of units	PDU	PDU Size	PDU Version	Max. Power (400V)	Max. Current / phase AC rms	Rack dimensions (WxHxD)
IPR-R15-36kVA-PDU 63A- V1	R15	15	1	63A	4U	V1	36kVA	42A	600x950x1000 mm
IPR-R15-36kVA-PDU 63A- V2	R15	15	1	63A	4U	V2	36kVA	42A	600x950x1000 mm
IPR-R18-36kVA-PDU 63A- V1	R18	18	2	63A	4U	V1	36kVA	84A	600x1150x1000 mm
IPR-R18-36kVA-PDU 63A- V2	R18	18	2	63A	4U	V2	36kVA	84A	600x1150x1000 mm
IPR-R24-72kVA-PDU 125A- V1	R24	24	3	125A	6U	V1	72kVA	126A	600x1350x1000 mm
IPR-R24-72kVA-PDU 125A- V2	R24	24	3	125A	6U	V2	72kVA	126A	600x1350x1000 mm
IPR-R28-72kVA-PDU 125A-V1	R28	28	4	125A	6U	V1	72kVA	168A	600x1550x1000 mm
IPR-R28-72kVA-PDU 125A-V2	R28	28	4	125A	6U	V2	72kVA	168A	600x1550x1000 mm
IPR-R28-115kVA-PDU 200A-V1	R28	28	4	200A	6U	V1	115kVA	168A	600x1550x1000 mm
IPR-R28-115kVA-PDU 200A-V2	R28	28	4	200A	6U	V2	115kVA	168A	600x1550x1000 mm
IPR-R32-115kVA-PDU 200A-V1	R32	32	5	200A	6U	V1	115kVA	210A	600x1750x1000 mm
IPR-R32-115kVA-PDU 200A-V2	R32	32	5	200A	6U	V2	115kVA	210A	600x1750x1000 mm
IPR-R37-115kVA-PDU 200A-V1	R37	37	6	200A	6U	V1	115kVA	252A	600x1950x1000 mm
IPR-R37-115kVA-PDU 200A-V2	R37	37	6	200A	6U	V2	115kVA	252A	600x1950x1000 mm
IPR-R37-146kVA-PDU 250A- V1	R37	37	6	250A	9U	V1	146kVA	252A	600x1950x1000 mm
IPR-R37-146kVA-PDU 250A- V2	R37	37	6	250A	9U	V2	146kVA	252A	600x1950x1000 mm

Example:

Step 1: My application requires a three phase 60 kVA AC&DC Power Supply.

The AFX Series is appropriate and we will need 4x 15kVA Units to reach 60 kVA.

Step 2: The IPR Rack will need to support the integration of four units for an output power of 60 kVA.

The dedicated models are IPR-R28-72kVA-PDU 125A-V1 or V2.

Step 3: An Emergency Stop Function is needed as part of the safety rule in the testlab.

V2 of the PDU is the correct solution.

Solution: For this application the IPR Model is

IPR-R28-72kVA-PDU 125A-V2 in addition to the 60 kVA AFX AC/DC Sources.

Available Models and Configuration

IPR-R15-36kVA-PDU 63A Vx

Rack-Size	15U Rack						
max. Number of Units	1						
PDU	63A max. in 4U max. Power 36kVA						
PDU Type	V1 or V2						
Recommended Units							
ADF	15kVA						
AFX	4,5/6kVA	9kVA	12kVA	15kVA			
AGX	6kVA	9kVA	12kVA	15kVA	18kVA	21kVA	
RGS	6kVA	9kVA	12kVA	15kVA	18kVA	21kVA	
RLS	6kVA	9kVA	12kVA	15kVA	18kVA	21kVA	
Model Numbers	IPR-R15-36kVA-PDU 63A-V1						
	IPR-R15-36kVA-PDU 63A-V2						
Order Example	IPR-R15-36kVA-PDU 63A-V1 + 1x 3180AGX-4UCL						



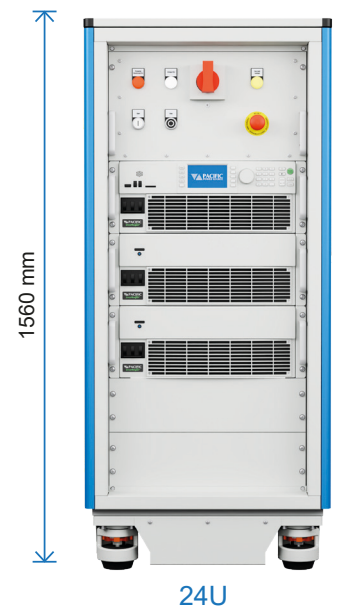
IPR-R18-36kVA-PDU 63A- Vx

Rack-Size	18U Rack		
max. Number of Units	2		
PDU	63A max. in 4U max. Power 36kVA		
PDU Type	V1 or V2		
Recommended Units			
ADF	2x 15kVA		
AFX	2x 12kVA	2x 15kVA	
AGX	2x 12kVA	2x 15kVA	2x 18kVA
RGS	2x 12kVA	2x 15kVA	2x 18kVA
RLS	2x 12kVA	2x 15kVA	2x 18kVA
Model Numbers	IPR-R18-36kVA-PDU 63A-V1		
	IPR-R18-36kVA-PDU 63A-V2		
Order Example	IPR-R15-36kVA-PDU 63A-V1 + 1x 3300ADF-4G		



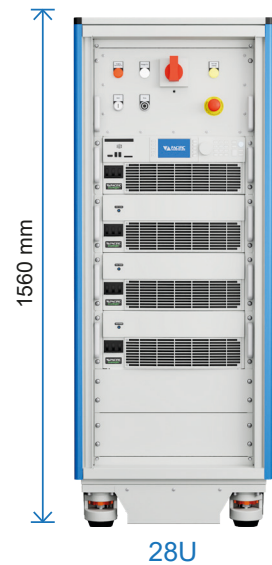
IPR-R24-72kVA-PDU 125A- Vx

Rack-Size	24U Rack				
max. Number of Units	3				
PDU	125A max. in 6U max. Power 72kVA				
PDU Type	V1 or V2				
Recommended Units					
ADF	3x 15kVA				
AFX	3x 12kVA	3x 15kVA			
AGX	3x 12kVA	3x 15kVA	3x 18kVA	3x 21kVA	
RGS	3x 12kVA	3x 15kVA	3x 18kVA	3x 21kVA	
RLS	3x 12kVA	3x 15kVA	3x 18kVA	3x 21kVA	
Model Numbers	IPR-R24-72kVA-PDU 125A-V1				
	IPR-R24-72kVA-PDU 125A-V2				
Order Example	IPR-R24-72kVA-PDU 125A-V1 + 1x 3630AGX-4UCL				



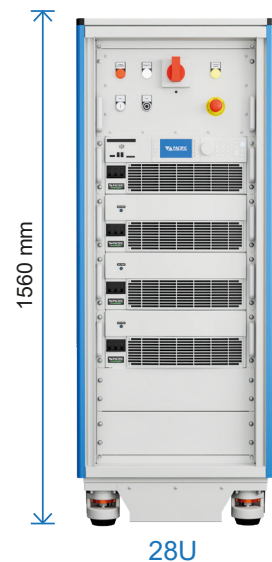
IPR-R28-72kVA-PDU 125A-Vx

Rack-Size	28U Rack		
max. Number of Units	4		
PDU	125A max. in 6U max. Power 72kVA		
PDU Type	V1 or V2		
Recommended Units			
ADF	4x 15kVA		
AFX	4x 15kVA		
AGX	4x 15kVA	4x 18kVA	3x 21kVA
RGS	4x 15kVA	4x 18kVA	3x 21kVA
RLS	4x 15kVA	4x 18kVA	3x 21kVA
Model Numbers	IPR-R28-72kVA-PDU 125A-V1		
	IPR-R28-72kVA-PDU 125A-V2		
Order Example	IPR-R28-72kVA-PDU 125A-V1 + 1x 3600AFX-4AG		



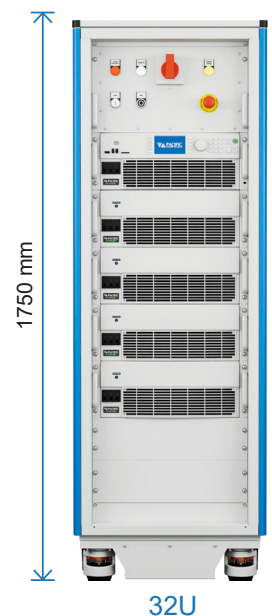
IPR-R28-115kVA-PDU 200A-Vx

Rack-Size	28U Rack		
max. Number of Units	4		
PDU	200A max. in 6U max. Power 115kVA		
PDU Type	V1 or V2		
Recommended Units			
ADF	4x 15kVA		
AFX	4x 15kVA		
AGX	4x 15kVA	4x 18kVA	4x 21kVA
RGS	4x 15kVA	4x 18kVA	4x 21kVA
RLS	4x 15kVA	4x 18kVA	4x 21kVA
Model Numbers	IPR-R28-115kVA-PDU 200A-V1		
	IPR-R28-115kVA-PDU 200A-V2		
Order Example	IPR-R28-115kVA-PDU 200A-V1 + 3630RGS-4UC		



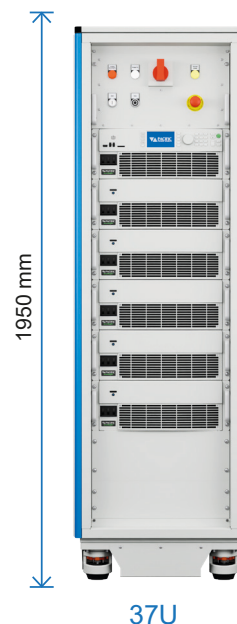
IPR-R32-115kVA-PDU 200A-Vx

Rack-Size	32U Rack		
max. Number of Units	5		
PDU	200A max. in 6U max. Power 115kVA		
PDU Type	V1 or V2		
Recommended Units			
ADF	5x 15kVA		
AFX	5x 15kVA		
AGX	5x 15kVA	5x 18kVA	5x 21kVA
RGS	5x 15kVA	5x 18kVA	5x 21kVA
RLS	5x 15kVA	5x 18kVA	5x 21kVA
Model Numbers	IPR-R32-115kVA-PDU 200A-V1		
	IPR-R32-115kVA-PDU 200A-V2		
Order Example	IPR-R32-115kVA-PDU 200A-V1 + 31050RLS-4UW		



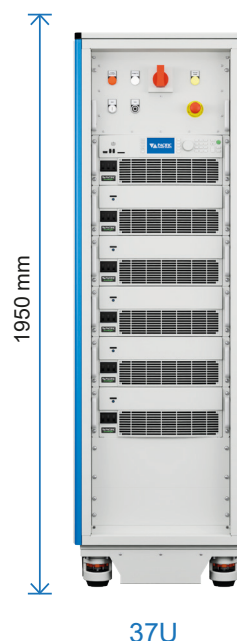
IPR-R37-115kVA-PDU 200A-Vx

Rack-Size	37U Rack		
max. Number of Units	6		
PDU	200A max. in 6U max. Power 115kVA		
PDU Type	V1 or V2		
Recommended Units			
ADF	6x 15kVA		
AFX	6x 15kVA		
AGX	6x 15kVA	6x 18kVA	5x 21kVA
RGS	6x 15kVA	6x 18kVA	5x 21kVA
RLS	6x 15kVA	6x 18kVA	5x 21kVA
Model Numbers	IPR-R37-115kVA-PDU 200A-V1		
	IPR-R37-115kVA-PDU 200A-V2		
Order Example	IPR-R37-115kVA-PDU 200A-V1 + 31050RGS-4UC		



IPR-R37-146kVA-PDU 250A- Vx

Rack-Size	37U Rack		
max. Number of Units	6		
PDU	250A max. in Open Format max. Power 146kVA		
PDU Type	V1 or V2		
Recommended Units			
ADF	6x 15kVA		
AFX	6x 15kVA		
AGX	6x 15kVA	6x 18kVA	6x 21kVA
RGS	6x 15kVA	6x 18kVA	6x 21kVA
RLS	6x 15kVA	6x 18kVA	6x 21kVA
Model Numbers	IPR-R37-146kVA-PDU 250A-V1		
	IPR-R37-146kVA-PDU 250A-V2		
Order Example	IPR-R37-146kVA-PDU 250A-V1 + 31260 AGX-4UCL		



Are you looking for a custom integration with different PDU, input/output connection or anything else, please contact us:

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Version 03/2026



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