

PRODUCT BROCHURE

RACK AC LOAD BANK

PV-6.6KW-ATS



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Product Summary

All new data centers are designed and expected to operate continuously for the duration of their design life. To achieve this, it is vital and very important to thoroughly test the critical cooling and power infrastructure before the installation of any IT hardware inside computer racks or server rack cabinets. It is important to simulate the layout operations and characteristics of the IT equipment as closely as possible (airflow and heat rejection). The datacenter must be tested at various load profiles of 25%, 50%, 75%, and 100% of the design load, while also simulating dual supply failure options.

If the racks are installed we have options for installation as single phase rack mounted server emulators or Three phase supply connections. Units are installed at the front of an IT rack and connected to the customer power distribution units(PDU) or to overhead or underfloor IEC sockets. This ensures the power supply is fully load tested down to the PDU/Sockets outlet.

Provang provides all type of load banks with the required:

- Characteristics (R, L, C)
- Electrical characteristics (AC, DC, V, A, kW)
- Stage precision
- Control (manual, HMI-controlled or automatic)
- Measuring methods
- Installation (indoor or outdoor)
- Rack mounted, portable, stationary and trailer mounted alternatives

Key Features

- 230V/400VAC Rack load bank for Data Centre Testing
- 19" Rack 6U structure
- Max 6.6KW (separate max 2.2KW for each phase)
- 1.1KW adjusting steps
- With ATS (Automatic transfer switch) for supporting dual AC supplies
- With AC supply input detection and load selection LED light

Technical Specifications

Type Name	PV-6.6KW-ATS
Max Voltage Input	230 volts, single phase 50/60 hz
Full Load Rating	6.6KW (29A) for 230V single phase
	6.6KW (9.6A) for 400V 3 phase
Load Channels	3 separate 2.2KW channels at 230V
	Each load adjustable in 2 steps of 1.1 KW
Adjustment	6 x 1.1 KW steps, selected via panel mounted illuminated switches
Connection	Three C20 panel mounted sockets for each independent load channel
Cooling	3 low noise, horizontal force air cooling fans, powered from the test source. Cool air intake at front, hot air exhaust at rear.
Airflow	Each fan 286 m ³ /hr, Total airflow 858 m ³ /hr
Element Type	High temperature Ni-chrome tape wound mounted on mica composite card
Dimensions & Weight	482.6*286*266mm (6U 19" rack) 8.5kg
Operating Temperature	-5~50°C
Storage Temperature	-40~70°C
Humidity	RH 0~90% (40±2°C)
Altitude	<4000m
Movement	Front handles for slide in assembly to 19" racks
AC Input Channels	2 channels A Supply & B Supply
Auto Transfer Switch	Support A supply with priority when both supplies on
Manual Transfer Switch	Supported