

100KW Resistive Loadbank

Portable design for mobile use



RATED POWER

100 kW

VOLTAGE

400 VAC

PHASE

3 phase

Specifications

Model name	DPX-30020
Product type	Resistive load bank
Rated voltage / frequency	400 VAC, 3 phase 4 wire, 50/60 Hz
Maximum load power	100 kW resistive
Power factor	1
Load steps @400 V	1, 2, 2, 5, 10, 20, 20, 40 kW
Load tolerance	+/-3% overall
Dimensions	54 x 29,2 x 58,2 cm
Weight	35 kg

Build reference

Insulation	Class F
Cooling	Forced air
Contactors	Schneider
Relay	Omron

Load bank definitions

RATED LOAD

Resistive AC load bank for generator and UPS testing up to 100 kW at 400 VAC, 3 phase.

OPERATION

Designed for continuous working with forced-air cooling, horizontal air intake and cooling.

CONTROL

Operation by local panel or PC software, with RS485 communication interface and RS485/RS232/USB converter.



Technical Data

Technical parameters

Rated voltage & frequency	400 VAC, 3 phase 4 wire, 50/60 Hz
Max load power	100 kW at 400 V, 3 phase
Load resolution	1, 2, 2, 5, 10, 20, 20, 40 kW
Fan control power	AC110V-240V single phase, 50/60 Hz
Wire connection	Load bank input: terminal block / control power input: 3-pin plug
Communication interface	RS485
Way of working	Continuous working
Transportation	With handle

Operating environment

Ambient temperature	-20 C to +50 C
Application	Outdoor
Relative humidity	<=95%
Atmospheric pressure	86 to 106 kPa

Supply list

Suitcase	Included
Power cord	3 meters
RS485 cable	10 meters
Converter	RS485/RS232/USB converter

Functions & Protection

Functions

Measurements	Voltage, current, active power, power factor and frequency
Load control	Pre-set the power then press the master load button
Control modes	Local control or intelligent PC control through data management software
Local control	Multi load steps with minimum 1 kW, controlled by buttons
PC software	Automatic load/unload, display, record and manage test data
Mode interlock	Selected control mode makes other modes invalid
One-key operation	One-key load/unload for easy control
Display	3 line LED multi-function meter display

Protection

Emergency stop	Emergency stop button
Over-load	Automatic load dump and alarm when voltage is over safety thresholds
Over-heat	Automatic load dump and alarm when temperature is over safety thresholds
Protection buttons	Can be switched off for false alarm or special requirements

Software functions

Communication	RS232, RS485 or USB interface
Load mode	Manual load or automatic load
Manual load	Input power and power factor
Automatic testing	User-defined power/time periods including 0%, 25%, 50%, 75%, 100% or 110%
Parallel testing	Displays and records parameters of each load bank and final parallel system
Real-time data	Current, voltage, power, power factor, frequency and time
Data interval	Minimum saving interval 1 second
Outputs	Graphs/charts in JPG and testing data in Excel format

