

PQube® 3 Power Analyzer Portable 600V



Features

- Convenient, ready-to-plug flexible CTs with banana plug voltage leads
- Self-powers from the measured voltage at nominal 480 to 600 Vac
- Optional environment probes to detect humidity, temperature, barometric pressure, acceleration
- Certified for Class A power quality per IEC 61000-4-30 Ed3
- Detect high-frequency transients at 4 MHz and record 2 kHz to 150 kHz conducted emissions

Applications

- Qualifying sites before installing critical equipment
- Troubleshoot power issues at the point of common coupling or close to equipment
- Survey and compare power quality at various sites

Overview

The PQube 3 Portable 600V combines the powerful PQube 3 power analyzer with a lightweight, rugged carrying case for a convenient portable power quality monitoring solution.

It is designed for quick installation and temporary measurement campaigns. It auto-detects your frequency, nominal voltage and power configuration. It can be wired to a local LAN but has also a cell modem ready option - no communication cables needed.

The PQube 3 Portable is easy to setup, wire, and operate. It can be used stand-alone with a USB stick for configuration and data download. If connected to a network, it delivers event notifications and daily, weekly, monthly reports directly.

RESULTS



- **Real-time readings via protocols**
Modbus, SNMP, BACnet, DNP3.0
- **Event recordings and graphs**
Text, CSV, GIF, and IEEE 1159-3 PQDIF
- **Daily, weekly, monthly, trends and graphs**
Text, CSV, GIF, and IEEE 1159-3 PQDIF

CONNECTIONS AND WIRING

A	L1, L2, L3 voltage inputs	
B	Neutral terminal (optional - depending on your power configuration)	
C	Earth terminal (functional - used as the reference point for voltage measurements)	
D	Current transformer inputs	
E	10/100 Ethernet RJ-45 port	
F	(2) Standard USB 1.0 ports for use ONLY with ENV2 environmental probes	
G	20 Vdc AUX power output (4W max)	
H	PQube 3 Analog & Digital I/O terminals	
I	24 Vdc power supply input	

TECHNICAL SPECIFICATIONS

Dimensions of PQube 3 Portable (L x W x H)	8.5 X 6 X 12 in (21.59 X 15.24 X 30.48 cm)
Weight of PQube 3 Portable	Approx 10 lbs (4.5 kg)
Operating Environment	Temperature: -20 to 45 °C Humidity: 5 to 95% RH (inside use) Altitude: <2000 m above sea level
Power Supply Options	1. Self-powered 480 to 600 Vac nominal (min 420 Vac to max 690 Vac) 2. External power supply with 100 to 240 Vac input to 24 Vdc output
Voltage Input Range (L1, L2, L3)	100 to 600 Vac nominal (4.8 MΩ impedance)
Current Input Range	333 mV RMS nominal, 10 Vpk (33.3 kΩ impedance); 0 to 3000 A CTs
Sampling Rate	512 samples per cycle at 50 Hz / 60 Hz
Backup Power	Up to 1 hr (configurable)
Internal Memory	32 GB (holds over a year of data)
Data Backup	USB 2.0 thumb drive; optional microSD card (not included)
Communication Interface	10/100 Ethernet port RJ-45 (optional wireless and cell modem)
Communication Protocols	Modbus/TCP, DNP 3.0, BACNET, SNMP with traps, FTP or HTTP (secure FTPS and HTTPS), and email
Clock Synchronization	SNTP, NTP
Output File Types	GIF, text, CSV/Excel, and IEEE 1159-3 PQDIF

For more information, contact Powerside for full specification



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ACCESSORIES INCLUDED

(1) Carrying case	Dimensions (L x W X H): 22 X 9.5 X 13.5 in (55.88 X 24.13 X 34.29 cm) Weight of Accessories & Carrying Case: Approx 25 lbs (11.3 kg)
(1) Power supply with power cable	100 to 240 Vac input, 24 Vdc output
(4) Flexible Rogowski coils CTs	0 to 3000 A
(1) Split core 5 A current transformer	333 mV output
(3) In-line fused voltage sensing test leads with banana jacks (L1, L2, L3)	Length: 6.5' (200cm)
(3) Spare fuses (L1, L2, L3)	Fuse Rating: 2 A, 1000 Vac/Vdc, Fast-acting
(2) Non-fused test leads with banana jacks (N, Earth) and alligator clips	Length: 6.5' (200cm)
(4) Color-coded alligator clips (L1, L2, L3, N)	Max jaw opening: 0.96" (25mm); red, yellow, blue, white
(1) Green "dolphin" clip (Earth)	Max jaw opening: 1.26" (32mm); green
(1) Hook-and-loop mounting strap	Length: 48" x 2"

Order Information

Part Number: PQ3iaB-Portable-4V8I-600V-XXX-XXXX

Contact Us

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Version 1 – 03/08/2022

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