

Our Customer Support Engineers get you started with:

- ▶ Validation of your system's installation integrity
- ▶ Start-up of your UPS or power system
- ▶ Basic operational training for your staff
- ▶ A full mechanical inspection
- ▶ Verification of all operating and monitoring parameters

Powerware Authorized Start-up Service

Around-the-Clock Availability Plus Assured Performance



Authorized start-up service from Powerware Global Services guarantees that your power system is up and running at factory specifications. The service also provides essential validation of your equipment warranty. Your start-up is assured by Powerware Global Services and is available 24 hours a day, seven days a week. Our Customer Support Engineers are specially trained on all Powerware brands. They'll be there every step of the way to ensure a trouble free start-up including essential training for your support staff and toll free technical support after your start-up is completed.

The Start-up Service includes:

- ▶ Complete system start-up guaranteed to factory specifications
- ▶ 7 x 24 scheduling
- ▶ Performance on AC or DC power systems
- ▶ Training of support staff plus toll free technical support

Start-up procedures and tests

- ▶ Visual inspection of all equipment, battery cells, ventilation, room cleanliness, use of proper signs and safety, proper cell numbering and interconnections
- ▶ Mechanical inspection of internal power connections, control wiring terminations and plugs, and subassemblies
- ▶ Electrical Precheck of UPS grounds, DC bus for short circuits, power terminations, and all power supply voltages
- ▶ Initial Unit Energization to verify entire system is in 'go' condition, energize unit and verify proper synchronization with bypass source
- ▶ Check Control Battery terminations and float voltage
- ▶ Check System Protection Settings for battery discharge, DCUV warning, ACOV and ACUV trip
- ▶ Waveform checks on DC link ripple, quasisquare waves, utility and bypass input, inverter output and logic control
- ▶ System Verification checks on AC current, DC link voltage, inverter output current, voltage waveforms, remote monitor, EPO, manual and automatic transfers to and from bypass, utility outages, generator interfaces and battery run conditions

Powerware Global Services delivers on-site support from a base of more than 250 U.S. technicians and 950 certified international service providers. These technicians support all brands manufactured by Invensys Powerware Division including Best Power, DataTrax, Deltec, Exide Electronics, Hawker, Industrial Power Management (IPM), Intergy, Lortec, and Powerware. Please contact your local service sales manager or Global Services for more information.