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Page 1: All rights reserved. The information in this document is subject to change without notice. Publish statement: Thank you for purchasing this series UPS. This series UPS is an intelligent, single-phase, in and out, high-frequency online UPS designed by our R&D team who has years of designing experiences on UPS. With excellent electrical performance, perfect intelligent monitoring, and network functions, smart appearance, complying with EMC and safety standards, the UPS meets the world’s advanced level. Read this manual carefully before installation: This manual provides technical support to the operator of the equipment. ... Table of Contents: 1. Important Safety Warning 1-1 Transportation 1-2 Preparation 1-3 Installation 1-4 Operation 1-5 Maintenance, service and faults 1-6 Symbols used in this guide 2. Installation and setup: 2-1 Unpack checking 2-2 Real panel view 2-3 ... **Before Using Your UPS** If you find that your UPS has been damaged during transportation, do not turn it on. Instead, contact the dealer immediately to report the issue. **Understanding the Real Panel View** The real panel view of your 1KVA(S), 2KVA(H)/3KVA(H), and 2KVA(S)-6batt/3KVA(S) UPS models displays several components: * AC input * Network/Fax/Modem Surge Protection (optional) * Input circuit breaker * EPO (optional) * USB communication port (optional) * RS-232 communication port * SNMP intelligent slot (optional) * Output receptacles * Battery Terminal * Output Terminal **Setting Up the UPS** To set up your UPS, follow these steps: 1. Connect the UPS to a two-pole, three-wire, grounded receptacle only. 2. For socket-type outputs, simply connect devices to the outlets. 3. For terminal-type input or outputs, follow these wiring configuration steps: * Remove the small cover of the terminal block * Use AWG14 or 2.1mm power cords for 3KVA (200/208/220/230/240VAC models) **UPS Startup and Shutdown** To start up your UPS: 1. Turn on the UPS in line mode. 2. Verify that the total equipment ratings do not exceed the UPS capacity to prevent an overload alarm. * Once mains power is plugged in, the UPS will charge the battery. * The LCD display shows the output voltage (220V), which means the UPS has automatically started the inverter. 3. Press and hold the ON key for more than 3 seconds to start the UPS. **LED Indicators** The LED indicators on your UPS indicate various statuses: * Alarm: active alarm or fault * Bypass: bypass mode * Battery: operating on battery power * Inverter: operating normally **Function Keys and LCD Display Icons** The function keys and LCD display icons provide additional information: * Function keys: ESC/OFF (exit setting mode or turn off the UPS), Down (go to next selection), ENTER/ON (confirm selection or enter setting mode) * LCD display icons: + Input source information + Configuration program and fault information + Warning and fault codes + Output information The battery information screen displays the battery level by percentage (0-24%, 25-49%, 50-74%, and 75-100%) in both charging and discharging modes. The LCD display also shows the battery capacity, voltage, and temperature settings. In AC mode, it will only show the battery charging status. There are four bars that flash to indicate the battery level: 0-24% with one bar on, 25-49% with three bars flashing in turns, 50-74% with two bars on and three bars flashing in turns, 75-100% with all four bars flashing. The load information screen indicates an overload by percentage (0-24%, 25-50%, 50-74%, and 75-100%). There are three operations: 1. Button operation function: turning on/off the UPS, confirming current settings, bypassing mode, exiting setting mode, selecting a previous button selection, or displaying the previous button selection. 2. UPS setting: the user can set various settings using four buttons (Up, Down, ON/Enter, OFF/ESC), including changing mode, voltage, frequency, and other parameters. When entering the setting interface, pressing the "▲&▼" button for 5 seconds will activate it after turning on the UPS. **Setting Up the UPS** To change settings, press the DOWN button to select the next setting, or use the UP and DOWN buttons to navigate through options. For example, to adjust battery capacity (range: 1-200Ah), press ENTER to change the setting. To return to a previous setting, press the UP button. The UPS has various modes and settings, including: * Utility Mode * Battery Mode * Self-diagnostics * ECO Mode * EPO Mode * Maintenance Bypass Mode * Fault Mode **Troubleshooting** If the UPS system is not functioning correctly, refer to the troubleshooting chart below. Common issues include: * Input power cord not connected or faulty * Internal battery or charger malfunctioning * High or low voltage alarm **Storage and Maintenance** The UPS contains no user-serviceable parts. If the battery service life has been exceeded (typically 3-5 years at 25°C), batteries must be replaced. Contact your dealer for assistance. When storing, ensure the UPS is fully charged and store it upright in a cool, dry place. Note that some sections have been condensed or reorganized to improve clarity and readability. Storage Temperature: -25°C to 40°C; Recharge Frequency: Every 2 months, Charging Duration: 1-2 hours, Storage Temperature: 40°C to 45°C; Recharge Frequency: Every 3 months, Charging Duration: 1-2 hours. Page 22: Relay card is used for UPS peripheral monitoring. The contact signals can reflect the running status of UPS. The card is connected to devices via terminal board to facilitate real-time monitoring and feedback when an abnormal situation occurs (e.g., UPS failure, mains interruption). It includes 6 output ports and 1 input port. Specifications: MODEL: 1KVA(S), 1KVA(H), 2KVA(S), 2KVA(H), 3KVA(S), 3KVA(H); PHASE: Single phase with ground; Capacity (VA/Watts): 1,000VA / 1,000W, 2,000VA / 2,000W, 3,000VA / 3,000W. INPUT: * Nominal voltage: 200/208/220/230/240VAC * Input voltage: + @100%-80% load: 160Vac±5% + @80%-70% load: 140Vac±5% + Low line: 120Vac±5% @70%-60% load; transfer: 110Vac±5% @60%-0% load Page 24: * Numbers: + Backup time: Long run unit depends on the capacity of external batteries + Typical recharge time: 4 hours to recover to 90% capacity (Typical)