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UPS power supply system low temperature resistance FOB price technical parameters



Overview

Low Temperature UPS Systems | Products & Suppliers | GlobalSpecFind Low Temperature UPS Systems related suppliers, manufacturers, products and specificatio.

Key Takeaways

Low-temperature UPS systems are designed to operate reliably in extreme cold, typically from -35°C to -36°F, with high efficiency, modular battery management, and customizable configurations for industrial and critical applications.Technical Parameters



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Operating Temperature Range: Most low-temperature UPS systems are engineered to function in extreme cold environments, with operating ranges from -35°C to 55°C or -36°F to 176°F, and relative humidity tolerance up to 95% non-condensing . Some units include heaters or circulating oil systems to maintain battery and fluid temperatures for cold starts . Power and Capacity: Systems are available in single-phase and three-phase configurations, with power ratings from 40 kW to 100 kW for industrial applications . Modular battery options allow extension of backup time to meet specific autonomy requirements . Efficiency and Power Factor: High-efficiency designs achieve up to 95% in online mode, with ECO modes reaching 99% efficiency, reducing energy consumption and heat output . Output power factor is typically PF=1, providing up to 30% more active power compared to standard UPS units . Components and Features:

• Rectifier, inverter, and battery charger for stable DC and AC conversion .

• Battery management systems for optimal charging and utilization .

• LCD control panels for real-time monitoring of voltages, currents, and battery autonomy .

• Cold start capability allows operation during total power outages .

• Conformal coated circuit boards and isolation transformers enhance reliability in harsh climates .

• Compact form factors (e.g., 2U rack units) for space-constrained installations . Environmental and Safety Compliance: Many systems comply with IEC 62040-1:2008 and other international standards, ensuring safe operation and protection of sensitive electronics .
FOB Price Considerations

FOB (Free on Board) pricing for low-temperature UPS systems varies depending on capacity, configuration, and supplier. While exact prices are typically negotiated with manufacturers, general guidance indicates:

• Small industrial units (up to 10 kW) may range from $2,000 to $10,000 FOB.

• Medium to large systems (40–100 kW) can range from $20,000 to $100,000 FOB, depending on features such as modular batteries, heaters, and monitoring systems . Suppliers like Controlled Power Company, Gruber Power Services, Somerset Power Systems, and PowerStream provide both standard and custom low-temperature UPS solutions suitable for industrial, telecom, medical, and mission-critical environments .
Summary

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Low-temperature UPS systems are engineered for extreme cold, offering high efficiency, modular battery management, and robust monitoring. Key specifications include operating ranges down to -35°C, high PF output, cold start capability, and compact form factors. FOB pricing depends on system size and features, with industrial units typically ranging from $2,000 to $100,000. These systems are ideal for remote locations, harsh climates, and critical operations where reliable power backup is essential .

Article Content

Technical Specification for Uninterrupted Power Supply (UPS)

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Technical Specification For Uninterrupted Power SupplySystem ConfigurationRectifier / Charger UnitInverter UnitStatic Transfer SwitchMaintenance Bypasses SwitchControl and Display UnitA parallel Redundant UPS system shall comprise two sets of UPS streams each of a designed kVA rating and a common Bypass with servo controlled Voltage Stabilizer (SCVS). Each UPS shall be supplied with Battery banks of a size suitable for UPSrating. Both the UPS shall run in parallel and share the connected load. The switchover from UPS to standby ...See more on instrumentationtools Shop UPS Power Supply System Low Temperature Resistance FOB Price Technical ParametersOffline UPS 600VA Line Interactive 360W Online Ups Power Supply 220V With AVR Internal Battery For ComputerAAlibaba B2B$25.10Free shippingFree shipping1 of 16Offline UPS 600VA Line Interactive 360W Online Ups Power Supply 220V With AVR Internal Battery For ComputerAAlibaba B2B$25.10Free shippingFree shippingTripp Lite SU16KRTG Smartonline 200-240V 16Kva 14.4Kw Double-Conversion UPS, N+1, 12U, Network Card Slot, USB, DB9, Bypass Switch, C19AAValive$11,450.992 of 16Tripp Lite SU16KRTG Smartonline 200-240V 16Kva 14.4Kw Double-Conversion UPS, N+1, 12U, Network Card Slot, USB, DB9, Bypass Switch, C19AAValive$11,450.994.3BACK-UPS-400-USTTexnite$139Free shippingFree shipping3 of 164.3BACK-UPS-400-USTTexnite$139Free shippingFree shippingPower Supply, Anywhereusb 2 Plus (Us, Eu, Uk, Au), Extended Temperature(1/Ea)Ddelupe $85.99Free shippingFree shipping4 of 16Power Supply, Anywhereusb 2 Plus (Us, Eu, Uk, Au), Extended Temperature(1/Ea)Ddelupe $85.99Free shippingFree shipping7/8-Channel Cooling Fan Hub Speed Controller Cable Splitter 3Pin 4Pin Power Supply Sata Charging Radiator For PC TemperatureAAliExpress$10.605 of 167/8-Channel Cooling Fan Hub Speed Controller Cable Splitter 3Pin 4Pin Power Supply Sata Charging Radiator For PC TemperatureAAliExpress$10.60KETOTEK Digital Thermometer Temperature Gauge USB Power Supply With BlackEeBay US$14.76Free shippingFree shipping6 of 16KETOTEK Digital Thermometer Temperature Gauge USB Power Supply With BlackEeBay US$14.76Free shippingFree shippingLM3886 3886 High Power OP2.0 Power Amplifier Board 07 Low Temperature Servo 5534 Pre-Amplifier Sinking PCB LM3886UUSA_AliEx$94.867 of 16LM3886 3886 High Power OP2.0 Power Amplifier Board 07 Low Temperature Servo 5534 Pre-Amplifier Sinking PCB LM3886UUSA_AliEx$94.86UPS23913-NUSTTexnite$3,644Free shippingFree shipping8 of 16UPS23913-NUSTTexnite$3,644Free shippingFree shipping4.4APC SMC1000 Smart-UPS 1000VA 120-Volt LCD UPS RJ-45 Serial 100 BTU/Hr System With Uninterrupted Power SupplyGreat Value UPSHigh Quality UPSReliable Battery LifeReliable Power ManagementAAmazon $457.99Free shippingFree shipping9 of 164.4APC SMC1000 Smart-UPS 1000VA 120-Volt LCD UPS RJ-45 Serial 100 BTU/Hr System With Uninterrupted Power SupplyGreat Value UPSHigh Quality UPSReliable Battery LifeReliable Power ManagementAAmazon $457.99Free shippingFree shippingHoneywell Analytics UPS 40A DC Module - TPPR-V-0501JJJS Tech$1,01810 of 16Honeywell Analytics UPS 40A DC Module - TPPR-V-0501JJJS Tech$1,018Schurter Felcom 64 Series 6424.0153 Power Entry Module With Iec320-C14EeBay$8.98$18.99Free shippingFree shipping11 of 16Schurter Felcom 64 Series 6424.0153 Power Entry Module With Iec320-C14EeBay$8.98$18.99Free shippingFree shippingMosiee For Ups Power Supply Network Camera Power Outage Backup Power Charging Module ModuleWWalmart$9.57$11.89Free shippingFree shipping12 of 16Mosiee For Ups Power Supply Network Camera Power Outage Backup

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UPS power system design parameters | PDF - SlideShare

This application note serves as a guide for the design, configuration, selection, sizing, and installation of uninterruptable power

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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