

APPLICATION BRIEF:

Cryptocurrency Mining (Blockchain Installations)

TYPICAL ENVIRONMENTS

- Warehouses and data centers with blockchain installations.

APPLICATION DESCRIPTION

- Cryptocurrency is an electronic cash system that uses a peer-to-peer network to prevent double-spending. It is completely decentralized with no server or central authority.
- Mining consists of a blockchain installation that processes millions of computational transactions per second.
- Cryptocurrency mining companies focus on the development of exchange and mining pool platforms, along with other transactions associated with the cryptocurrency sector.

BUSINESS CHALLENGES

- Cryptocurrencies depend on miners to confirm every transaction and add it to a blockchain. Miners are then rewarded with Bitcoins or other cryptocurrencies, but it can be difficult to keep up with the expenses involved in a successful mining operation.
- Miners must confirm more transactions in the cryptocurrency blockchain than their expenses to be profitable.
- Blockchain operations consume a huge and costly amount of energy. Blockchains must distribute power to hundreds of miners, while also providing a solid and workable platform for future growth.

TECHNICAL/OPERATIONAL CHALLENGES

- Cryptocurrency mining needs to provide the ability to gather data on energy usage, along with monitoring and management of individual connected devices.
- When building-out a cryptocurrency operation, businesses typically need to install hundreds of power distribution units (PDUs) that are capable of running constantly near maximum capacity.
- Installed PDUs also need to integrate into existing power monitoring and management software.

TRIPP LITE PDU SOLUTIONS

Model	Type	Phase	Form Factor	Capacity (kW)*	Input Voltage	Plug Type	Outlet Types
PDU1230	Basic	Single-Phase	Horizontal (1U)	5.8	200; 208; 220; 230; 240	NEMA L6-30P	(16) C13; (4) C19
PDU3MV6H50	Metered	3-Phase	Vertical (0U)	12.6	208	Hubbell CS8365C 50A	(36) C13; (9) C19
PDU3EVSR6L1530	Switched	3-Phase	Vertical (0U)	10	200; 208; 220; 230; 240	NEMA L15-30P	(24) C13; (6) C19
PDU3EVSR6H50	Switched	3-Phase	Vertical (0U)	14.5	200; 208; 220; 230; 240	Hubbell CS8365C 50A	(24) C13; (6) C19
PDU3XEVSR6G60B	Switched	3-Phase	Vertical (0U)	25.2	380-415	IEC 309 60A Red (3P+N+E)	(24) C13; (6) C19
PDU3XEVSRHWB	Switched	3-Phase	Vertical (0U)	28.8	380-415	Hardwire	(24) C13; (6) C19

*Capacity varies with voltage and applicable derating.

Contact your Tripp Lite representative for more information.

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