



UPM-570 Uninterruptible Power Module

Bloom's Energy Server is a new class of distributed power generation, producing clean, reliable, affordable electricity at the customer site. Bloom Energy Servers can run on natural gas, as well as, renewable fuels like biogas. You choose what works for you. Onsite fuels can provide added insurance for your critical loads, and Bloom can easily accommodate those needs.



The Uninterruptible Power Module (UPM) is a system upgrade that allows Bloom Energy Servers to supply constant, stable power to protected loads during grid outages or grid flicker events. It is a modular addition to the Bloom Energy Server platform that enables delivery of high quality, grid-independent power for business and operational continuity.

UPM-570 Specifications

Outputs

Nameplate power output (net AC)	160kW / 200 kVA
Electrical connection	480V @ 60Hz, 3 or 4-wire 3 phase
Maximum Load Step	50 kW
Maximum Parallel Configuration	5 Units (750 kW) (600 kW with N+1)
Standalone Operation Duration in Grid Outage	96 hours (4 days)

Power Quality

Waveform	Sine wave
Power Factor	0.7 Leading to 0.7 Lagging
Maximum Crest Factor	3
Static Voltage Regulation	1%
Transient (Dynamic) Voltage Regulation	5%
Voltage THD	<2% (with linear load)
Over load capability < 110%	Infinite
Over load capability < 125%	45 seconds
Over load capability < 150%	15 seconds
Short circuit current	550A

Physical

Weight	5000 lbs
Size	4' 2" x 8' 7" x 6' 9"

Environment

Standard temperature range	-20° to 45° C (extreme weather kit optional)
Humidity	0% - 100%
Seismic Vibration	UBC Seismic Zone 4
Location	Indoor / Outdoor
Noise @ rated power	< 70 dB @ 6 m

About Bloom Energy

Bloom Energy is making clean, reliable energy affordable. Our unique on-site power generation systems utilize an innovative fuel cell technology with roots in NASA's Mars program. By leveraging breakthrough advances in materials science, Bloom Energy systems are among the most efficient energy generators; providing for significantly reduced operating costs and dramatically lower greenhouse gas emissions. By generating power where it is consumed, Bloom Energy offers increased electrical reliability and improved energy security, providing a clear path to energy independence.

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