

Kokam Li-Ion Battery For Uninterruptible Power Supply (UPS)



Delivering High Power, Small Footprint, and Flexible Design

K-UPS(Kokam UPS) battery racks provides perfect protection in a number of applications including data centers and telecom. During outage, K-UPS battery racks immediately provides back-up power to protect mission-critical information and systems

LEAD-ACID UPS vs K-UPS BATTERY RACK

HIGH POWER		LONG CYCLE LIFE		SMALL FOOTPRINT	
<p>X 5 times (10C-Rate)</p>		<p>3~5 YEARS CYCLE LIFE</p> <p>15 YEARS CYCLE LIFE</p>		<p>10 ft²</p> <p>3 ft²</p>	
LEAD-ACID	K-UPS	LEAD-ACID	K-UPS	LEAD-ACID	K-UPS
<p>20~22.5°C MORE COOLING SYSTEMS REQUIRED</p>	<p>18~28°C LESS COOLING SYSTEMS REQUIRED (Cost saving and enhanced safety)</p>		<p>No Hydrogen gas emissions result in lower ventilation costs and safer operation than Lead-Acid</p>	<p>5 : 1</p>	
LEAD-ACID	K-UPS			LEAD-ACID	K-UPS
WIDE TEMPERATURE RANGE		LOW MAINTENANCE & NO HYDROGEN EMISSIONS		LIGHT WEIGHT	



◀ K-UPS Battery Rack Exterior Design

Fire Suppression System & Fan

Battery Protection Unit (BPU)

Rack MCCB
Rack BMS
Contactor/Breaker

KBM Module

Switched Mode
Power Supply (SMPS)



K-UPS Battery Rack Interior Design ▶



KOKAM UPS BATTERY_CABINET & RACK TYPE

- Higher energy density and lighter weight allows integration of batteries and UPS providing faster and more reliable field installation and start-up
- Provides 4 to 8 times longer cycle life and high power density than lead-acid battery
- No degradation with shallow cycles
- No open-circuit failure mode during normal operation
- No hydrogen generation
- Integrated monitoring of individual cell's voltages and temperatures

2Pole Model	100S	110S	120S	132S	140S	154S
Installed Capacity	27.7 kWh	30.5 kWh	33.3 kWh	36.6 kWh	38.8 kWh	42.7 kWh
Module Configuration	20S1P x 5	22S1P x 5	20S1P x 6	22S1P x 6	20S1P x 7	22S1P x 7
Voltage Range	320Vdc ~410Vdc	352Vdc ~451Vdc	384Vdc ~492Vdc	422Vdc ~541Vdc	448Vdc ~574Vdc	492Vdc ~631Vdc
Battery Capacity	75Ah					
Max. Discharge Current	870A, Peak					
UL Certification	UL1642, UL1973 (Module level)					



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