



AEC ITALY CATALOG

2023





UPS SERIES IST 8



1:1

Power from 1kVA up to 3kVA



kW = kVA

96%
Efficiency

UPS ONLINE WITH LITHIUM BATTERIES

The IST8 single-phase lithium UPS (1-3kVA) are the range of rack UPS with lithium-ion batteries produced by AEC, in powers starting from 1kVA up to 3kVA. The UPS IST8 series adopts the most **innovative lithium-ion battery** technologies, guaranteeing a lifespan of the UPS up to **15 years**.

The lithium UPS units are available in models with internal batteries or combined with external battery cabinets for longer runtimes. The IST8 UPS is capable of withstanding temperatures up to 60 ° without risking damage to the batteries.

5-years battery warranty.

LITHIUM ION UPS

PRINCIPAL FEATURES

LITHIUM ION BATTERIES

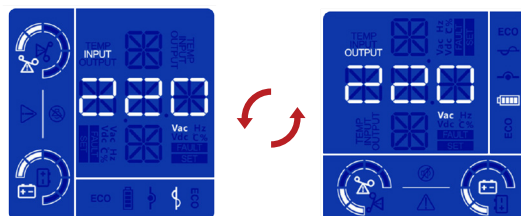
- Output power factor equal to 1 for a better load capacity at the same power with lower and more convenient initial investment costs;
- Integrated lithium-ion batteries, weight reduction up to 40% compared to traditional lead-acid VRLA batteries, maximum discharge capacity up to 80% and an expected life of 15 years and over 1500 charging cycles;
- In addition to being much lighter and less bulky, lithium-ion batteries are also much more versatile and advantageous thanks to their ability to operate in extremely cold temperatures. Maximum operation at -20°C and up to $+50^{\circ}\text{C}$, without any risk of damage or downgrading of performance;
- Possibility of installation in 19-inch rack or tower;
- Advanced DSP digital control technology for precise and rapid data processing;
- Detection and warning of faults to ensure the safety of the device, also monitoring the temperature of the UPS;
- Intelligent fans with high efficiency cooling, multiple modes to control their speed, extend their life and improve their efficiency.



- Small size and dustproof front design with LCD display;
- Wide input tolerance, compatible with diesel generators;

STANDARD AND COMMUNICATIONS

- Large rotary HD LCD screen, graphic interface and simplified display for an improved and user-friendly user experience;
- Output 208/220/230/240 Vac, 50 / 60Hz voltage, configurable from on-site display;
- ECO mode configurable from on-site display;
- RS232 and USB communication ports equipped with user manual, cable and CD for software;
- Maintenance bypass rack module (optional);
- SNMP network card for remote control and monitoring (optional);
- NC \ NO dry contact card for alarms (optional).



WARRANTY



ASSISTANCE

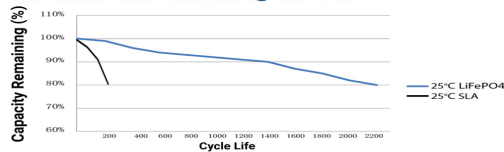


BUILT-IN LITHIUM-ION BATTERIES

EXCELLENT PERFORMANCE

- **Higher energy density:** Li-ion batteries lithium have a higher energy density than to lead-acid batteries, which means they can store more energy in a smaller space.
- **Lighter:** Li-ion batteries are lighter compared to lead-acid batteries, which makes them easier to transport and install.
- **Longer life:** lithium-ion batteries have longer life than lead-acid batteries e can be used for longer periods without the need to replace them.
- **Higher efficiency:** Lithium-ion batteries have higher efficiency than lead-acid batteries, which means they can provide more energy for each unit of weight.

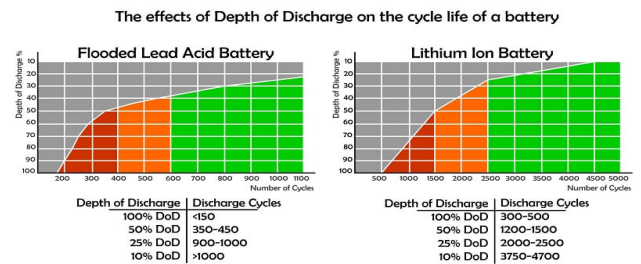
**CYCLE LIFE of LiFePO4 vs SLA at 25°C
0.2C CHARGE/0.5C DISCHARGE @ 100% DOD**



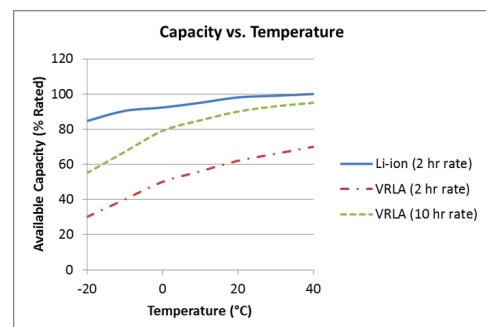
- **Greater flexibility:** lithium-ion batteries can be used in a wide range of applications and in different types of devices, while the lead acid batteries are mainly used in specific applications.



- **Life cycles:** Li-ion batteries have a cycle longer life than lead-acid batteries, i.e can be downloaded and reloaded for a greater number of times before losing their capacity.



- **Self-discharge:** Li-ion batteries have a self-discharge lower than lead-acid batteries, which meaning they lose less energy when not in use.
- **Working voltage:** Li-ion batteries have a higher working voltage than al batteries lead, which means they can deliver more energy for each unit of volume.
- **Working temperature:** lithium ion batteries they can work in a wider range of temperatures compared to lead-acid batteries.



TECHNICAL SPECIFICATIONS

MODELS	IST8-1-LI		IST8-2-LI	IST8-3-LI
INPUT				
VOLTAGE (VAC)	120-295			
FREQUENCY (HZ)	50/60± 10% (50/60Hz)			
POWER FACTOR	≥0.99			
THDI	<5%			
OUTPUT				
POWER (W/VA)	1000/1000	2000/2000		3000/3000
MAX. AC/AC EFFICIENCY	92.7%	93.5%		96%
POWER FACTOR	1			
VOLTAGE (VAC)	208/220/230/240±1%			
FREQUENCY (HZ)	50/60±0.1			
THD	<3%			
SWITCHING TIME (MS)	0			
ECO MODE	Yes			
OVERLOAD	101%~115% for 1 min, 116%~133% for 1 s, < 134% for 200ms			
LITHIUM BATTERIES				
VOLTAGE (VDC)	24	48		72
BACKUP TIME (MIN)	11	11		11
MAX. CHARGING CURRENT (A)	4			
OTHER SPECIFICATION				
COMMUNICATIONS	USB and SNMP (slot) (RS232+ Optional dry contact card)			
OUTPUT SOCKETS	(8) 5-15R	(6) 5-20R		(4) 5-20R + (1) L5-30R
DISPLAY	LCD			
PROTECTIONS	Low batteries, Overload, Short-circuit, Over-temperature, ecc.			
NOISE (DB)	< 55			
TEMPERATURE	0°C~60°C			
HUMIDITY	0 ~ 95%			
DIMENSIONS (L×W×H) (MM)	438×420×87	438×570×87		438×570×87
WEIGHT (KG)	8.9	13.6		196
STANDARDS AND CERTIFICATIONS	CE (Reference standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; Classification IEC EN 62040-3)			

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