



Made in Italy

Since 1968

UPS

batteries

Italian technology

Global energy

solutions

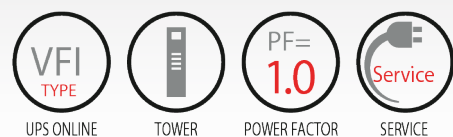
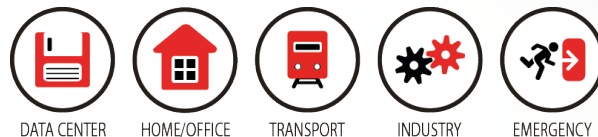


IST4

SERIES

10 - 20 kVA

ONLINE UPS



DETAILS

The new series of Uninterruptible Power Supply IST4 are composed by an Innovative True Three Level Technology, On-Line Double Conversion models, completely digital controlled, suitable to protect different kind of loads, from servers to computers networks, from medical instruments to security and surveillance systems.

- Advanced microprocessor control and IGBT inverter
- High energy efficiency and low waste heat dissipation
- Active battery management for fault prediction

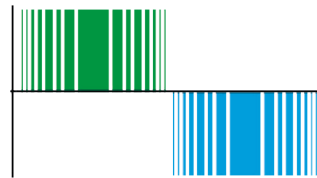
- High efficiency, up to 95%
- kVA=kW, Output PF=1
- 3 level of technology IGBT Rectifier and Inverter
- Self-aging function
- Intelligent digital charging management, maximum charger current up to 12A
- Smaller and compact size with higher power density
- Parallel up to 4 units
- Back up time up to 4 hours
- Optional specialised ups management software
- Failsafe internal bypass switch with manual control





High Reliability

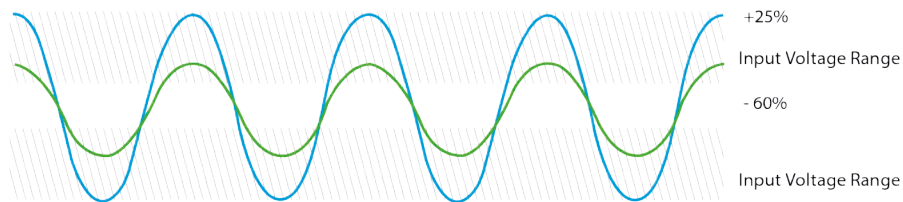
- Super wide input voltage range -60%~+25%
- Robust overload ability
- Dual system control card prevent single failure point
- IGBT rectifier benefit with low THDi (<3%) and high power factor
- Bus synchronization control function provides reliable high power for the dual bus application
- 3-level IGBT inverter ensures excellent performance
- Intelligent fan control according the load capacity reduces the noise and prolongs fan service life



Two level output voltage waveform



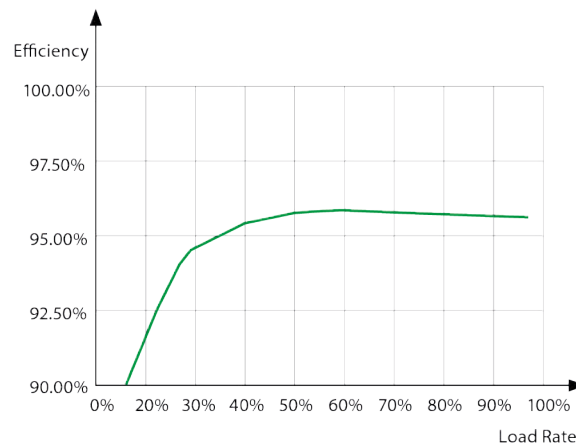
Three level output voltage waveform



wide input voltage range

Green Power

- High efficiency in online mode (≥95%) reduces heat dissipation and limits power consumption costs
- Efficiency>99% in ECO mode gives significant cost reduction



For example:

- AEC 200kVA UPS efficiency ranks 1% higher than industry average(94%)
- Saving UPS electricity 10512 kWh per year
- The equivalent of nearly 1681.92 USD saved per year (Calculation bases on 0.16USD/kWh).

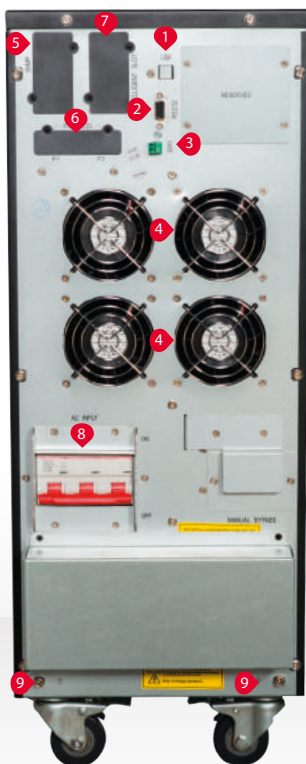


Save \$1681.92 per Year!



IST4

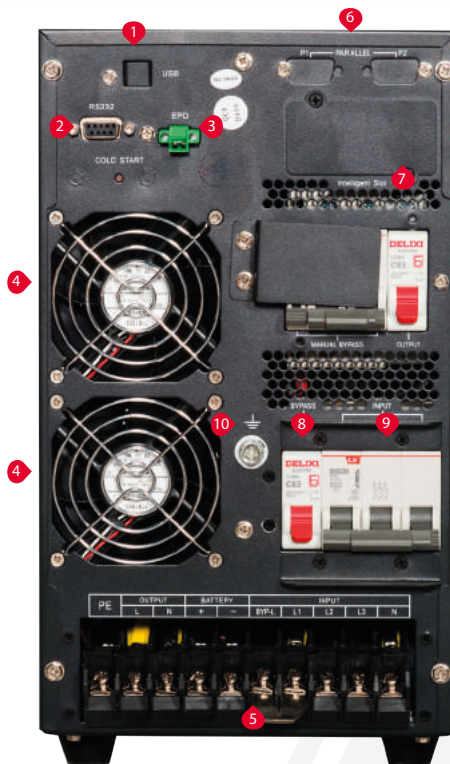
- 1. USB
- 2. RS232
- 3. EPO
- 4. Fans
- 5. SNMP
- 6. Parallel P1-P2
- 7. Intelligent slot
- 8. Input switch
- 9. Ground



Front panel



Front panel



IST4L

- 1. USB
- 2. RS232
- 3. EPO
- 4. Fans
- 5. Terminal block
- 6. Parallel P1-P2
- 7. Intelligent slot
- 8. Bypass switch
- 9. Input switch
- 10. Ground

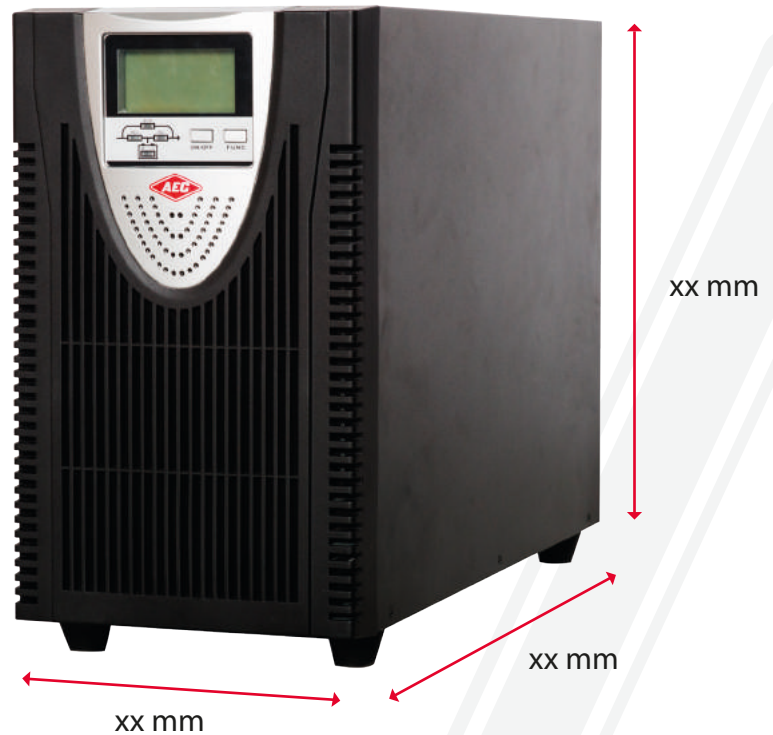




IST4 10-20kVA

for
external
batteries

IST4L 10-20kVA





IST4

AEC UPS MODEL	IST4100	IST4100-L	IST4150	IST4200
INPUT				
Capacity	10KVA/10KW	10KVA/10KW	15KVA/15KW	20KVA/20KW
Cold Start	YES - Default output frequency will be 50Hz or settable			
Acceptable Input voltage	L-L 190VAC~499VAC			
	100% load@>305VAC			
	90% load@>266VAC			
	75% load@>228VAC			
	50% load@>190VAC			
Phases	Three phases + Neutral in, single phase out			
Transfer Voltage Range	L-L 380/400/415VAC			
-Line low transfer	190VAC			
-Line low recovery	209VAC			
-Line high transfer	499VAC			
-Line high recovery	486VAC			
Input Current				
-Rating (nominal input voltage)	20A/380V		30A/380V	40A/380V
-Input Power Factor	≥0.99			
-Input current distortion	≤5%			
-Input Frequency Range	40~70Hz			
OUTPUT				
Frequency adaptable	From 50 to 60 Hz Settable			
Power				
-Power (VA)	10KVA		15KVA	20KVA
-Power (kW)	10KW		15KW	20KW
Output Voltage				
-Waveform (Bat. Mode)	Pure Sine Wave			
-Nominal voltage	L-N 220VAC/230VAC/240VAC, 200VAC/208VAC (PF=0.9)			
-Voltage regulation	± 1 %			
-Voltage distortion	≤1% THD, linear load			
	≤3% THD, non linear load			
Output Frequency				
-Synchronization range	±5Hz default, settable			
-Battery mode	(50±0.1) Hz default			
Transfer Time				
-Line mode to battery mode	0ms			
-Inverter to bypass	0ms			
Efficiency				
-Line mode with battery full charged	94%@100% load, 94.5%@70% load		94.2%@100% load, 95%@70% load	94.2%@100% load, 95%@50% load
-ECO mode	98%			
Overload Capability (Inverter Mode)	105% to 110% : Transfer to bypass after 10 mins			
	111% to 125% : Transfer to bypass after 1 min			
	126% to 150% : Transfer to bypass after 30 s			
Overload Capability (Bypass Mode)	less than 125 : long time running			
	126% to 130% : Shutdown in 5 mins			
	131% to 150% : Shutdown in 1 min			
	> 150% : Shutdown in 200 ms			

