



Made in Italy

Since 1968

UPS

batteries

Italian technology

Global energy

solutions



IST6

SERIES

Modular

ONLINE UPS



DATA CENTER

HOME/OFFICE

TRANSPORT

INDUSTRY

EMERGENCY



DETAILS

The new series of IST6 UPS provides optimal solutions for power protection of any type of three-phase load, adopting NEW Modular technology to ensure total system reliability and a very competitive price.



- On-line double conversion with output power factor 0.9 (1 optional)
- PFC technology for low harmonics input THD
- Start by batteries
- Parallelable up to 6 units
- LCD display complete with all the informations
- EMI / RFI filters

Guaranteed Protection

- The advanced features of all the working sections of the UPS DSP digital control system ensure high reliability in highly stressful situations, such as highly fluctuating networks, distortion, dynamic loads and unbalanced, multiple blackouts newspapers. The sinusoidal input with low THD and the power factor 1 of the UPS IST6 make our UPS the ideal solution for low / zero impact on the power grid.
- The UPS IST6 can be connected in parallel up to 6 units of the same capacity, in the active power, redundant or hot-standby configurations.

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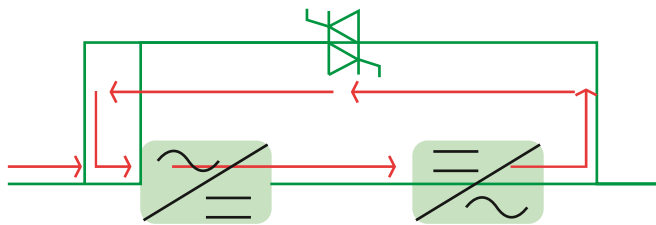
Taiwan
Allis Electric Co.Ltd
Taipei City 11501, Taiwan, R.O.C.
Tel: +866-2-26553456





High Reliability

- Each power module has an independent LCD, gives users' direct overview of status data and alarms in real time
- Provide graphical and text based information of alarms, status data, instructions that users can have more friendly and safer operation
- Cooling air flows in the lower layer, keeping the upper PCB free of dust
- One airflow channel ensures fans redundancy, even one fan fails, power module can run normally
- Smart Sleep
- Self-aging
- Programmable DryContact



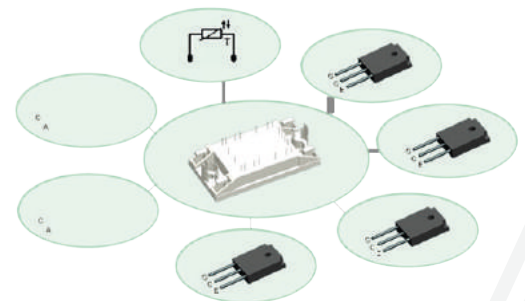
Self-aging is an advanced function applied in all three phase UPS. Self-aging function can test UPS under different load situation without real load, saving more than 90% energy.

- Simulate different load conditions without connecting to any real load, saving 90% of energy

On site setting supported, easy for factory testing.

Intelligent Management

- In each power module, information of critical components is monitored and displayed in real time, giving customers a view of inner status of the system and providing reminder information for maintenance
- Maintenance reminder, running time of capacitors and fans displayed and recorded
- Comprehensive temperature monitoring for thermal abnormal detection
- Intelligent battery charger for long battery life



Flexible Design

- Instead of discrete IGBT and SCR components, IST6 series UPS uses modular IGBT and SCR in Rectifier and Inverter, bringing in extremely high reliability
- All components in one module, less fault points, higher reliability
- All components integrated as one modular design, smaller disparity
- Less space needed, UPS with compact design and higher power design
- Integrate internal thermal sensors display IGBT inner temperature directly

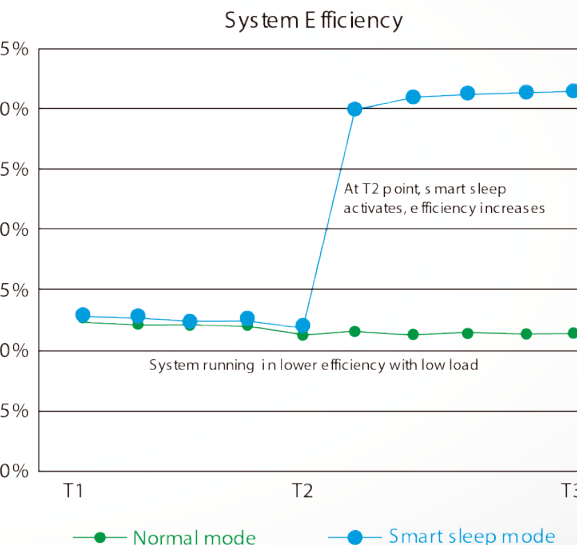
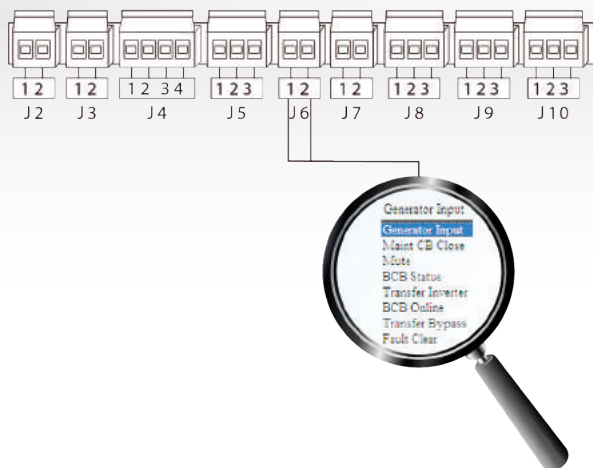




Smart sleep function

Smart sleep function can intelligently make some power modules go to sleep when load is relatively low, improving the efficiency of the remaining power modules and saving customers on power and cooling costs.

- Improving efficiency, reducing power and cooling costs.
- Easy setting with just two steps. Customers can select sleep mode and rotation period
- Power modules working in rotation, prolong the life time



Programmable dry contacts

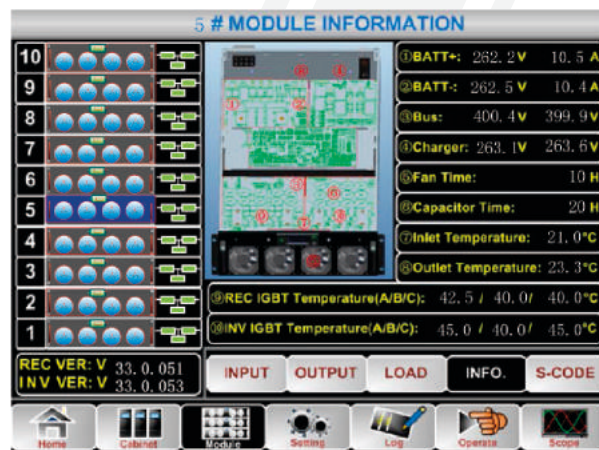
Programmable dry contacts are available in all RM and HT33 series UPS. Customers can easily expand or modify the definition of each port.

- Abundant options with three inputs and four outputs, all programmable
- Easy setting, just pull the drop-down menu and set
- Compatible with all the Rm and IST6

Comprehensive monitoring management

In each power module, information on critical components is monitored and displayed in real time, giving customers a view of inner status of the system and providing reminder information for maintenance.

- Maintenance reminder, running time of capacitors and fans displayed and recorded
- Comprehensive temperature monitoring for thermal abnormal detection
- Intelligent battery charge for long battery life





The IST6 series modular UPS provides the most compact footprint of less than 2m² with maximum capacity of 900kVA. With best reliability and high performance, it has been leading the domestic market for years.

IST6 series is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.



Bypass & Monitoring module

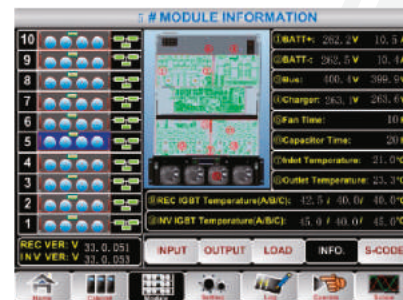
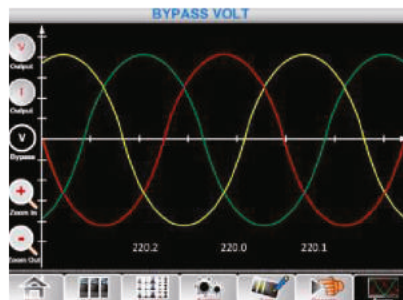
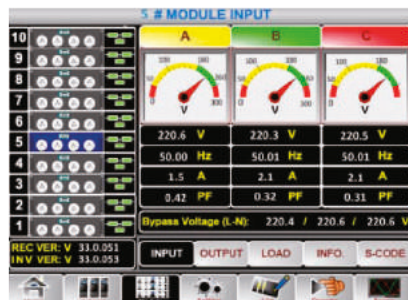


Power module

- Inherently N + X redundant
- Hot swappable power module and bypass & monitoring module
- Additional charging module, extra charging current 50A × N for long time back up application

Friendly interface

Provide graphical and text based information of alarms, status data, instructions that users can have more friendly and safer operation.





IST6

Model		IST6	
Capacity	20-200KVA (module from 20KVA) **		
Main Input			
Input voltage	380V/400V/415V		
Input frequency	50/60Hz		
Power factor	>0,99		
Input current THD	<3%		
Input voltage window	-20% - +20% full load		
Frequency window	40-70Hz		
Bypass			
Bypass voltage	380V/400V/415V		
Bypass voltage window	-20 - + 15% full load		
Bypass overload capability	125% < load < 130%, last for more than 1 hour		
	130% < load < 150%, last for more than 6 months		
	>1000% last for more than 100 ms		
Battery			
Battery voltage	±240Vdc		
Charger power	20% power		
Charger voltage precision	1%		
Output			
Output voltage	380V/400V/415V		
Voltage precision	1.5%		
Voltage THD	THD<1,5% (linear load), THD <5% (non linear load)		
Power factor	0,9		
Phase tolerance	120° ±0,5° (balance and unbalance load)		
Overload capability	105% long time operation		
	110% transfer to bypass after 1 hour		
	125% transfer to bypass after 10 min		
	150% transfer to bypass after 1 min		
	> 150% transfer to bypass after 200 ms		
Bypass overload capability	125% long time operation		
	125% <load< 130% last for more than 1 hour		
	130% <load< 150% last for more than 6 min		
	>1000% last for more than 100 ms		
System			
System efficiency	Normal mode 95%		
	ECO mode 99%		
Battery mode efficiency	95%		
Battery configuration	12V 40pcs		
Display	LCD+LED touch screen and keyboard		
IP class	IP20		
Interface (communication ports)	RS232, RS485, dry contacts, SNMP card, EPO		
Installation/Connection	top or bottom cable connection		
Operation temperature	0-40°C		
Storage temperature	-25°C - 70°C		
Relative humidity	0-95% (non condensing)		
Noise (dB)	<55dB		
Weight (Kg)	UPS with 3 MODULES	105	
	UPS with 6 MODULES	145	
	UPS with 10 MODULES	179	
	MODULES FROM 20KVA	22	
Dimension (W*D*H) (mm)	UPS with 3 MODULES	600*900*1100	
	UPS with 6 MODULES	600*900*1600	
	UPS with 10 MODULES	600*900*2000	
	MODULES FROM 20KVA	440*590*134	

