

# interberg batteries



## **TOLEDO Series Modular Online UPS 50-500 KVA (380V/400V/415V)**

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## TOLEDO Series Modular Online UPS 50-500KVA (380V/400V/415V)

**TOLEDO** series modular, online UPS ranging from 50kVA to 500kVA is designed to protect any critical load for medium and large data center achieving maximum availability. **TOLEDO** series feature the latest technology of 3-level technology and PFC input control, which guarantees high efficiency of 96% and ultra-reliability. Its compact design ensures power density of 500kVA in one cabinet, 3 units can be paralleled for capacity or redundancy up to 1500kVA, making it an excellent choice for medium and large facilities.



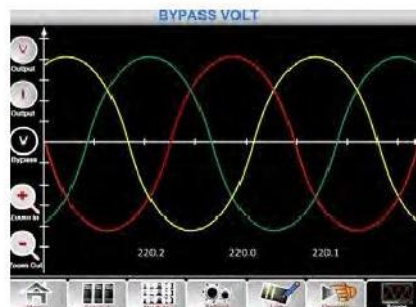
### Independent LCD for Each Power Module

Each power module has an independent LCD, gives users' direct overview of status data and alarms in real time.



### Friendly Interface

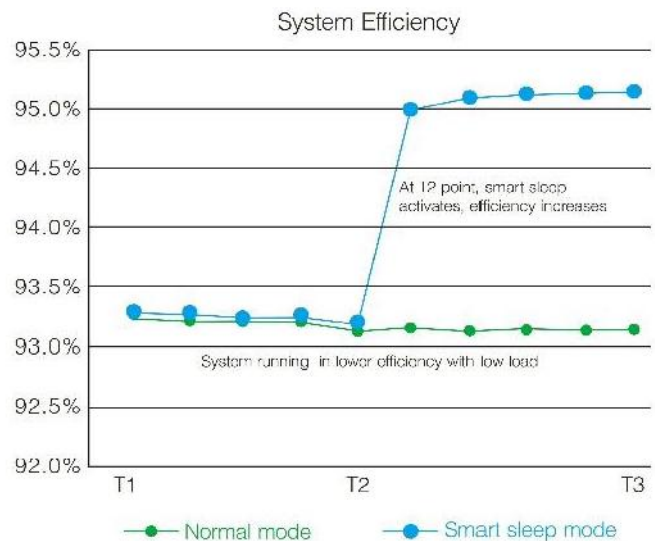
Provide graphical and text based information of alarms, status data, instructions that users can have more friendly and safer operation.



## Smart Sleep

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.

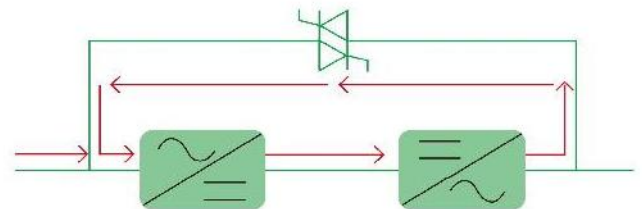
- Improving efficiency ,reducing power and cooling costs
- Easy setting with just two steps. Customers can select sleep mode and rotation period
- Power modules working in rotation, prolong the life time



## Self-aging

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% of energy.

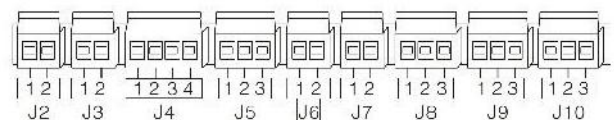
- Simulate different load conditions without connecting to any real load, saving 90% of energy
- On site setting supported, easy for factory testing



## Programmable Dry Contacts

Programmable dry contacts are available in all **TOLEDO** 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 **TOLEDO** series UPS.



## Specification

MODEL	RM100/50X	RM200/50X	RM300/50X	RM500/50X	
Capacity	100kVA/90kW	200kVA/180kW	300kVA/270kW	500kVA/450kW	
Power module	50kVA/45kW				
<b>INPUT</b>					
Phase	3P+ N + G (380/400/415V)				
Voltage range	304-478Vac (line-line), 100% load; 304-228Vac, load derated linearly				
Frequency range	40Hz-70Hz				
Power factor	>0.99				
THDi	THDi<3% @ 100% linear load				
<b>OUTPUT</b>					
Voltage	380/400/415V				
Voltage regulation	1% for balance load; 1.5% for unbalance load				
Power factor	<b>0.9 - 01 Optional</b>				
THDu	THD<1%(linear load ),THD<5.5%(None linear load)				
Crest ratio	3:1				
Overload capability	110% for 60 minutes; 125% for 10 minutes; 150% for 1 minute; >150% for 200ms				
<b>BATTERY</b>					
Voltage	<b>+/- 240Vdc (Nickel-Cadmium or Lead-Acid)</b>				
Charge power	20%*System Power				
Charge voltage precision	±1%				
<b>SYSTEM</b>					
System efficiency	Normal mode:96% ,Battery mode:96%				
Display	10.4" Color touch screen LCD + LED + Keyboard				
IP class	IP20				
Interface	Standard :RS232,RS485,USB,Dry contacts(programmable); Optional: SNMP ,AS400,Parallel kit, Battery cold start(standard for 300kVA and 500kVA), Lightning protection components, Dust filter, LBS				
Operation/Storage temperature	0-40°C /-25-70°C				
Relative humidity	0-95%(non-condensing)				
Noise	72dB @ 100% load; 69dB @ 45% load (1 meter away)				
MTTR	30 Min				
MTBF	300/000 hours				
<b>PHYSICAL</b>					
Weight	Cabinet	120kg	170kg	220kg	450kg
	Power module	45kg			
Dimension (W*D*H)	Cabinet	600*980*1150 mm	650*960*1600 mm	650*960*2000 mm	1300*1100*2000 mm
	Power module	510*700*178 mm			

