

AVO TTIM SERIES
80KVA-400KVA (3:3)



Features

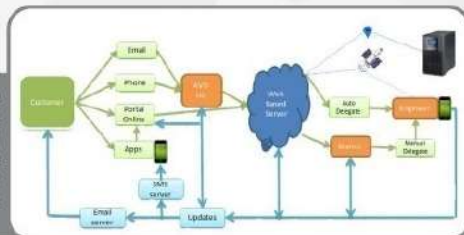
The TTIM series modular, online UPS ranging from 40kVA to 400kVA is designed to protect any critical load for medium and large data center achieving maximum availability. The HM series feature the latest technology of 3-level technology and PFC input control, which guarantees high efficiency of 96% and ultra-reliability. Its compact design ensures power density of 400kVA in one cabinet, 3 units can be paralleled for capacity or redundancy up to 1200kVA, making it an excellent choice for medium and large facilities.

- Compact design
- 400kVA in one cabinet, footprint less than 1.45m², saving valuable room space
- High power density 40kVA power module in 4U height, easy for capacity expansion
- High efficiency
- Advanced 3-level technology guarantees high efficiency operating in double conversion mode up to 96%
- Intelligent charging management
- The system intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery
- High scalability
- The system can be configured from 40kVA to 400kVA in one single cabinet, 3 units in parallel for a capacity up to 1200kVA
- Friendly HMI
- 10.4" touch color LCD with graphic display, independent LCD for each power module
- Smart sleep function
- System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency
- Multi communication interface
- Provide RS232,RS485,USB,SNMP,AS400 and programmable dry contacts

MODEL		TTIM40400	TTIM40320	TTIM40240	TTIM40160	TTIM40080	
System Capacity		400kVA	320kVA	240kVA	160kVA	80kVA	
Power Module Capacity		40kVA/40kW					
Input	Dual Input	Standard		Optional	Standard		
	Phase	3 Phase+Neutral+Ground, 480V(line-line)					
	Input Voltage Range	384~528Vac (line-line), full load; 288V~384Vac (line-line), load decreases linearly according to the min phase voltage					
	Rate Frequency	50/60Hz					
	Input Frequency Range	40Hz ~ 70Hz					
	Input PF	>0.99					
	Input THDi	<3% (100% Linear load)					
Bypass	Rate Voltage	480Vac (line-line)					
	Rate Frequency	50/60Hz					
	Input Voltage Range	Settable, -40% ~ +10%					
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz					
	Bypass Overload	110% long term operation 125% for 5 mins 150% for 1 min >150% for 1s		125% long term operation 130% for 10 mins 150% for 1 min >150% for 300ms			
Output	Rate Voltage	480Vac (line-line)					
	Voltage Regulation	1% for balance load; 1.5% for unbalance load					
	Rate Frequency	50/60Hz					
	Frequency Precision	0.1%					
	Output PF	1					
	Output THDu	<1% , Linear load; <5.5% , Non-linear load					
	Crest Factor	3:1					
	Inverter Overload	110% for 1 hour; 125% for 10 mins ;150% for 1 min; >150% for 200 ms					
Battery	Voltage	± 240VDC					
	Battery Number	40pcs					
	Voltage Precision	±1%					
	Charge Power	up to 20% * Output active power					
	Battery Cold Start	Standard		Optional			
System	Efficiency	AC Mode: 96.0% ECO Mode: 99.0% Battery Mode: 95.0%					
	Display	10.4" touch screen LCD + LED + keyboard					
	IP Class	IP 20					
	Interface	RS232,RS485, Programmable Dry Contact, USB					
	Option	SNMP Card, Parallel kit, SPD, LBS, Dust filter					
	Temperature	Operation: 0 ~ 40 °C Storage: -40 ~ 70 °C					
	Relative Humidity	0 ~ 95% Non-condensing					
	Altitude	<1000m. Within 1000m to 2000m, power derate 1% for every 100m rise					
	Noise (1 meter)	72dB @ 100% load, 69dB @ 45% load					
Physical	Weight (kg)	Cabinet	450	350	220	170	120
		Power module	44				
	Dimension W*D*H(mm)	Cabinet	1300*1100 *2000	1050*1100 *2000	650*970 *2000	650*960 *1600	600*980 *1150
		Power module	510*700*178				

- All specifications subject to change without notice.
- Custom-made specifications are acceptable

AVO has developed state of the art and very customized web based e-CRM for all its service operations. The unique software allows the Clients to log the call themselves. The Best feature of the software is it automatically delegates the calls to the field engineers depending upon the database of engineers as per location & past records and subsequently tracks the engineer location and site location through GPS. Customers get automated mails on current progress and are also able to track the engineer who is going to attend the call. An SMS alert to update the call status is also sent to the customer.



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