

ONLINE UPS 10-120 KVA (3/3)



AVO HIGH POWER TTK 12000

Application:

Computer/critical servers/data center/hub & other network device/LAN/WAN.

FEATURES

- High efficiency, up to 96%
- Battery cold start
- High input PF>0.99; Input current THDi <3%
- Battery management with smart charging control, greatly extend the battery life
- Multi-protection, over-temperature protection with 8 sensors, over-load, battery under voltage, fan failures, short-circuit
- Parallel up to 8 units
- Four circuit breakers, providing full protection when fault
- Friendly operation interface, high-resolution LCD screen happens

TECHNICAL SPECIFICATIONS

MODEL	TTK10K	TTK20K	TTK30K	TTK40K	TTK60K	TTK80K	TTK100K	TTK120K
Input								
Rated AC Voltage	380/400/415V(L-L)							
Type of Input Power	3 Phase+PE							
Power factor	>0.82(>0.92,with filter)				>0.85(>0.94,with filter)			
Harmonic distortion (THDi)	<20%(<8%,,with filter)							
Voltage Range	285~500Vac							
Frequency range	45~66Hz							
Power Stepping Time	5-300 seconds,(settable)							
Bypass								
Rated Voltage	380/400/415V(L-L)							
Voltage Range	+20%,-40%,(settable)							
Type of Input Power	3 Phase+Neutral+PE							
Frequency range	50/60Hz±10%(settable)							
Transient Overload	15In, 10ms; 5In, 5s							
DC Bus(Battery)								
Battery voltage	384Vdc(default 32, 30-34,settable)							
Ripple voltage Superimposed								
Charge current Max.	9.1A	18.2A	27.3A	36.4A	54.6A	72.8A	91A	109A
Output								
Nominal power	10kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA
Active power	8kW	16kW	24kW	32kW	48kW	64kW	80kW	96kW
Rated Voltage	380/400/415V(L-L)							
Frequency range	Sync. ,the same as the bypass input, 50/60±3Hz(settable)							
	Free running, 50/60(1±0.05%)Hz							
Type of Input Power	3 Phase+Neutral+PE							
Voltage regulation	±0.5%							
Harmonic distortion (with linear load)	THD<1.5%(phase voltage)						THD<1.5%(phase voltage)	
Harmonic distortion (with non linear load)	THD<12%(phase voltage)						THD<8%(phase voltage)	
Frequency stability on battery	±0.05%Hz							
Inverter Overload	100%~105%, long ; 105%~110%, 60min; 110%~125% 10min; 125%~150% 1min							
Bypass<->inverter transfer time	0ms,with sync., <15ms without sync.							
Normal<->Battery mode transfer time	0ms							
Crest factor	3:01							
Efficiency	91.00%							
Other								
Parallel	up to 6 units, redundant (optional)							
Ioop current	4%(1+1)							
	5%(1+N)							
Noise level at 1 m	≤65DB							
Display	4 line , LCD+LED / touch screen(optional)							
Communications	RS232+RS485, 8 dry contact signals, SNMP card(optional)							
Protection	input under/over voltage , over temperature, over current, over load, DC bus over voltage							
Cold start	standard							
Battery temperature compensation	optional							
Moving the UPS	wheel				forklift			
Operating temperature	0~40°C							
Storage/Transport Temperature	-25~75°C							
Altitude	≥ 1000m a.s.l. de-rate power by 1% per 100m between 1000 and 2000 m							
IP rating	IP20/IP21							
Standards	Safety: IEC60950-1, IEC62040-1-1, UL1778, EMC: IEC62040-2 CLASS C2, EN50091-2 CLASS A,							
H (mm)	1100				1400		1600	
W (mm)	430				720		880	
D (mm)	830				690		760	

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