

## ONLINE UPS 20KVA-400KVA(3:3)



## AVO TTEM SERIES

### APPLICATION

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

### FEATURES

- High frequency online double-conversion with DSP control
- Hot swappable operation for all modules
- Inbuilt integrated PDU system, easy installation and economic initial investment
- Wide input voltage range, 50Hz/60Hz frequency self-adaptable
- Support two modes of frequency conversion: 50Hz input/60Hz output and 60Hz input/50Hz output
- Input power factor > 0.99, input THDi <sup>^</sup> 3%, output THDV <sub>ss</sub> 3%
- Advanced "N+X" wireless parallel and redundancy technology easily set up different numbers of redundancy UPS module via LCD
- Inbuilt battery module available, 40x12V/9AH for each module
- Share battery pack in parallel operation, saving user's battery cost
- System capacity up to 400KVA/400KW constructed by each module 20KVA/20KW, single charger module be equipped with 30A charging current, 4 modules be configured maximally
- Flexible charger parameter and battery configuration setting, selectable battery number: 32 pes / 34 pes / 36pcs / 38 pes / 40 pes
- Advanced intelligent battery management technique, prolong the working life of battery effectively
- Support battery cold start and mains supply self-starting
- Completely isolation design between fragile components and air flue, improving the system reliability greatly
- Fragile components been replaced as module easily at low maintenance cost
- Front door operation, available for top and bottom terminal connection

# TECHNICAL SPECIFICATIONS

MODEL	TTEM6680	TTEM66160	TTEM66200	TTEM66400
Capacity	80KVA/80KW	160KVA/160KW	200KVA/200KW	400KVA/400KW
Numbers of Parallel Module	1 to 4	1 to 8	1 to 10	1 to 20
Numbers of Redundancy Module	0-3	0-7	0-9	0-19
UPS Power Module	20KVA/20KW			
<b>INPUT</b>				
Rated Voltage	380V/400V/415VAC			
Voltage Range	204-520VAC(Load<50%); 242-520VAC(50%<Load<=70%); 277V-520VAC( 70% < Load < 100% )			
Rated Frequency	50/60HZ Auto Sensing			
Frequency Range	40-70Hz			
Power Factor	≥0.99			
Total Harmonic Distortion (THDi)	≤3 %			
Bypass Voltage Range	Rated output voltage-40%- Rated output voltage+20%(Setting available via LCD)			
<b>OUTPUT</b>				
Voltage	380V/400V/415VAC			
Voltage Regulation	±1%			
Frequency	Synchronized with utility on AC mode; 50/60Hz±0.1%on battery mode			
Power Factor	1			
Waveform	Pure sine wave			
Crest Factor	3:01			
Total Harmonic Distortion(THDV)	≤1%(Linear load);≤3%(Non-linear load)			
Transfer Time	AC mode to battery mode :0ms Inverter mode to bypass mode:0ms			
Inverter Overload Capability	110%-130%:Transfer to bypass after 10mins; 130%-150%:Transfer to bypass after 1tnins; >150%: Transfer to bypass after 0.5s			
Bypass Overload Capability	«150%; Long time running >150%: Power off after 10s			
<b>BATTERY</b>				
DC Voltage	± 240V(Option: ± 192V/± 204V/± 216V ± 228V)			
Inbuilt Battery of Standard Model	40*12V/9AH for each module			
Charger Current	1-30A/60A(Setting available via LCD)			
<b>SYSTEM</b>				
Efficiency	≥94%			
Display Panel	5.7 Inches LCD touch screen			
Alarm	Battery mode. Battery voltage low. Fans fault etc			
EMI	EN62040-2			
EMS	IEC61000-4-2(ESD) IEC61000-4-3(RS) IEC61000-4-4(EFT) IEC61000-4-5(Surge)			
<b>ENVIRONMENT</b>				
Humidity	0~95% RH @ 0~40°C(non-condensing)			
Noise Level	«60dB			
<b>MANAGEMENT</b>				
Communication	RS232,RS485,USB,Dry contact			
Optional SNMP	Supports Windows* 98/2000/2003/XP/Vista/2008/Windows*7/8 Power management from SNMP manager and web browser			
<b>PHYSICAL</b>				
Module Dimensions(mm) W*D*H	482x590x131			
Module Weight	28kg/Power module, 27kg/Charger module ,7kg/Monitor module			
UPS Dimension(mm) W'D'H	600x1000x1600	600x1000x2000	1200x1000x2000	
UPS Packing Dimension(mm) W"D"H	700x 1070x 1760	700x1070x2160	700x1070x2160(x2)	
UPS Net/Gross Weight(kg) Without Inbuilt Battery and Power Module	225/245	290/310	280/300	560/600
Input/Output/Bypass breaker	Yes	Yes	No	No

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