

ONLINE UPS 50KVA-800KVA(3:3)



AVO TTEM SERIES

APPLICATION

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

FEATURES

- DSP digital control technology
- Pure sine wave double conversion, with strong load capacity
- Flexible modularity and easy scalability with all hot-swappable module design
- Keep high efficiency operation at low load rate: 96% at 40% rated load and 95% at 20% rated load
- High power density of 50 KVA/3U power module
- 500 KVA system only 1.02 m² footprint
- Inbuilt integrated PDU system, easy installation and saving investment
- Input power factor > 0.99, THDi < 3%, environment friendly and high-efficiency and energy-saving
- Wide Input voltage range, 50 Hz / 60 Hz frequency auto-sense, adapt to all kind of grid
- Soft-start technology improves generator matching up to 1:1.1
- Support two modes of frequency conversion: 50 Hz input / 60 Hz output and 60 Hz input / 50 Hz output
- Intelligent hibernation design enable UPS to operate efficiently at low load rate
- Advanced parallel expansion technology, support 4 units In parallel
- Share battery pack in parallel operation, saving user's battery cost
- Flexible charger parameter and battery configuration setting, battery number 30 ~ 46 pes selectable
- Intelligent battery management (Intelligent charge/discharge management and float charging voltage temperature compensation), extending battery lifespan
- Support battery cold start and utility self boot
- Self-aging function, easy debugging and test on site

TECHNICAL SPECIFICATIONS

MODEL	TTEM66200	TTEM66250	TTEM66300	TTEM66500	TTEM66600	TTEM66800
	200KVA	250KVA	300KVA	500KVA	600KVA	800KVA
Rated capacity	4	5	6	10	12	16
Numbers of power modules	50KVA					
Rated capacity of power module	50KVA					
INPUT						
Input wiring	3Ph + N + PE					
Rated voltage	380/400/415Vac					
Voltage range	138 ~ 485 Vac (305 ~ 485 Vac without power downgrading; 138 ~ 305 Vac with linear downgrading 40%)					
Input frequency	40 ~ 70 Hz					
Power factor	S 0.99					
Current distortion	< 3%					
BATTERIES						
Battery voltage	± 240Vdc(=180, ± 192, ± 204, ± 216, ± 228, ± 252, ± 264, ± 276 selectable)					
Number of battery	40 per 12 V batteries (30 / 32 / 34 / 36 / 38 / 42 / 44 / 46 per selectable)					
OUTPUT						
Output wiring	3Ph + N + PE					
Rated voltage	380/400/415 Vac ±1%					
Frequency	Synchronized with utility in mains power mode: 50 Hz / 60 Hz ± 0.25% in battery mode:					
Power factor	0.9					
Voltage distortion	s= 1% with liner load / < 3% with non-linear load					
Crest factor	3:01					
Inverter overload capacity	105% < load ss 110%: transfer to bypass in 60 mins 110% < load < 125%: transfer to					
Bypass overload capacity	Load <135% for long term; < 1000% load for 100 ms					
SYSTEM						
Efficiency	96%					
Max. number of parallel	4 units					
Transfer time	0 ms					
Protection	Short circuit: protection, overload protection, over-temperature protection, battery low					
Communications	RS485, dry contacts, SNMP					
Display	7 inches LCD touch screen					
OTHERS						
Operating temperature	0-40^					
Storage temperature	- A0°C ~ 70°C					
Humidity	0 ~ 95% (non-condensing)					
Altitude	< 1000 m. Above 1000 m, derating 1% for each additional 100 m					
Protection level	IP 20/IP21					
Noise level at 1 m	< 65 dB		< 68 dB			
Cabinet dimensions (W x D x H) (mm)	600 x850	1200 x 850 x 2000			1400	2400x850
	X2000				x850x2000	x2000
UPS module dimensions (W x D x H) (mm)	442 x 620 x 130					
UPS module weight (kg)	32					

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