

ONLINE UPS 150KVA-800KVA



AVO TTIPE 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
- Modular design, high reliability and easy maintenance
- Dual input power distribution for higher usability
- Input power factor > 0.99, THDi < 3%, environment friendly and high-efficiency and energy-saving
- Keep high efficiency operation at low load rate: 96% at 40% rated load
- High power density, 500 kVA system only 1.02 m² footprint
- High Efficiency operating in on-line mode up to 96%, in ECO mode up to 99%
- Wide input voltage range, 50 Hz / 60 Hz frequency auto-sense, adapt to all kind of grid
- Support two modes of frequency conversion: 50 Hz input / 60 Hz output and 60 Hz input / 50 Hz output
- Output power factor 0.9, load capability improved 12.5% more than traditional products
- Advanced parallel expansion technology, support 4 units in paralle
- 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

TECHNICAL SPECIFICATIONS

| MODEL | TTIPE12150 | TTIPE12200 | TTIPE12300 | TTIPE12300 | TTIPE12500 | TTIPE12600 | TTIPE12600 |
|-----------------------------|--|---------------|----------------|----------------|----------------|-------------------|----------------|
| Rated capacity | 150kVA 135kW | 200 kVA 180kW | 300 kVA 270 kW | 400 kVA 360 kW | 500 kVA 450 kW | 600 kVA 540 kW | 800 kVA 720 kW |
| 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 | ≥ 0.99 | | | | | | |
| Current distortion | <3% | | | | | | |
| BATTERIES | | | | | | | |
| Battery voltage | ± 240Vdc(±180, ± 192, ± 204, ± 216, ± 228, ± 252, ± 264, ± 276 selectable) | | | | | | |
| Number of battery | 40 pcs 12 V batteries (supports 30 /32 /34/35/38/42/44/46 pcs) | | | | | | |
| OUTPUT | | | | | | | |
| Output wiring | 3 Ph + N + PE | | | | | | |
| Rated voltage | 380/400/415Vac | | | | | | |
| Voltage regulation accuracy | ± 1% | | | | | | |
| Frequency | Synchronized with utility on mains power mode, 50 Hz / 60 Hz ± 0.25% in battery mode | | | | | | |
| Power factor | 0.9 | | | | | | |
| Voltage distortion | > 1% with linear load, => 3% with non-linear load | | | | | | |
| Crest factor | 3:01 | | | | | | |
| Inverter overload capacity | 105% < load * 110%for60min, 110% < load =s 125% for 10 min, 125% < load ss 150% for 1 min, Load > 150% for 200 ms | | | | | | |
| Bypass overload capacity | Load *135% for ong term; < 1000% load for 100 ms | | | | | | |
| SYSTEM | | | | | | | |
| Efficiency | 96% | | | | | | |
| Max. number of parallel | 4 units | | | | | | |
| Transfer time | 0 ms | | | | | | |
| Protection | Lack-phase protection, phase-error protection, short circuit protection, overload protection, over-temperature protection, battery low voltage | | | | | | |
| Communications | RS485, dry contacts, SNMP | | | | | | |
| Display | 7 inches LCD touch screen | | | | | | |
| OTHERS | | | | | | | |
| Operating temperature | 0-40T; | | | | | | |
| Storage temperature | - 40°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 | | | | | | |
| Noise level at 1 m | < 65 dB | | | < 68 dB | | | |
| Dimensions (Wx D x H) (mm) | 600x850x2000 | | | 1200x850x2000 | | 1400 x 850 x 2000 | 2400x850x2000 |
| Weight (kg) | 333 | 365 | 439 | 680 | 795 | 1011 | 1540 |

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