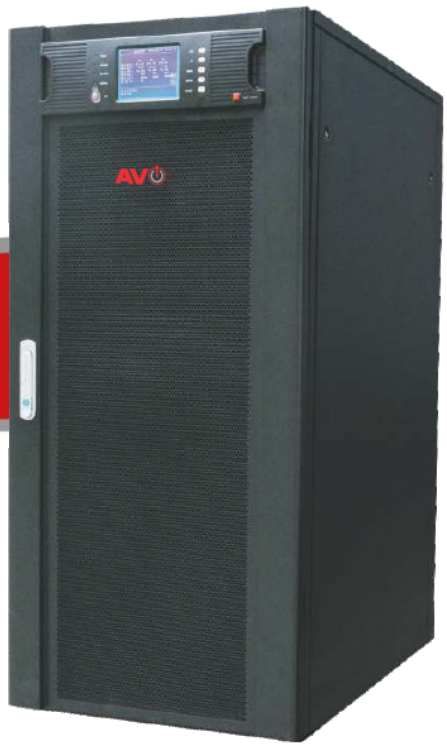
AVO HIGH POWER TTIPE SERIES

10kVA ~ 60kVA (3:3 / 3:1)



Features

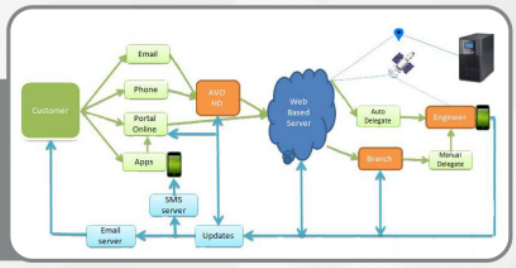
- High frequency online double–conversion with DSP control
- Modular design, high reliability, easy maintenance
- Input power factor correction (PFC)
- ECO mode operation for energy saving
- Wide Input voltage range Auto sensing 50Hz / 60Hz frequency
- Support two modes of frequency conversion: 50Hz input / 60Hz output and 60Hz input / 50Hz output
- Input power factor > 0.99, input THDi ⩽ 5-7%, output THDV ⩽ 3%
- Output power factor 1.0
- High efficiency: ⩾ 96%
- Share battery pack in parallel operation or separate battery pack for different UPS
- Flexible charging parameter and battery configuration setting, selectable battery number: 16 pcs / 18 pcs / 20pcs
- Advanced intelligent battery management technique, prolong the working life of battery effectively
- Support battery cold start and mains supply self–starting
- 5.7 inches LCD touch screen, friendly human & machine interface
- Complete hardware and software protection function, robust self–diagnostic function, and abundant event log for check
- Perfect password control technology, including: the first power–on password control, user password control and Maintenance password control.
- Reminders of battery out of warranty
- Standard emergency power off (EPO)
- Standard RS232 / USB / RS485 / dry contacts communication port
- Optional SNMP communication port
- Optional N+X redundancy parallel up to 6 units / Hot Standby Mode
- Optional built–in isolation transformer
- Optional battery temperature compensation
- Can be configurable as 3:3 or 3:1 as per actual need
- Operating Altitude >2000 meter

Specifications

MODEL	TTIPE 12010	TTIPE 12015	TTIPE 12020	TTIPE 12030	TTIPE 12040	TTIPE 12050	TTIPE 12060
Capacity	10 KVA / 10 KW	15 KVA / 15 KW	20 KVA / 20 KW	30 KVA / 30 KW	40 KVA / 40 KW	50 KVA / 50 KW	60 KVA / 60 KW
INPUT							
Rated voltage	380 / 400 / 415Vac						
Voltage range	204 ~ 242Vac (L–L), load ⩽ 50%; 242 ~ 305Vac (L–L), 50% < load⩽ 70% ; 305 ~ 520Vac (L–L), 70% < load ⩽ 100%						
Rated frequency	50 / 60Hz (auto–sense)						
Frequency range	40 ~ 70Hz						
Power factor	⩾ 0.99 (with IGBT Rectifier)						
Total harmonic distortion (THDi)	⩽ 5% (Liner Load), ⩽7% (Non-Liner Load)						
Bypass voltage range	Rated output voltage–40% – Rated output voltage + 20% (settable via LCD)						
OUTPUT							
Voltage	380 / 400 / 415Vac / 220 - 230 - 240V (Selectable)						
Voltage regulation	± 1%						
Frequency	Synchronized with utility in mains mode; 50 / 60Hz ± 0.1% in battery mode						
Power factor	1.0						
Waveform	Pure Sine Wave						
Crest factor	3:1						
Total harmonic distortion (THDV)	⩽ 2% (linear load); ⩽ 5% (non–linear load)						
Transfer time	0 ms						
Inverter overload capability	102% ~ 127%: transfer to bypass in 10 mins; 127% ~ 150%: transfer to bypass in 1 min; > 150%: transfer to bypass in 0.5 s						
Bypass overload capability	⩽ 150%: long time running; > 150%: power off in 10 s						
BATTERIES							
DC voltage	±192V (option: ±204V / ±216V / ±228V / ±240V)						
Charging current	1 ~ 12A (settable via LCD)				1 ~ 24A (settable via LCD)		
SYSTEM							
Efficiency	> 96%; ECO mode > 98.5%						
Display	5.7 Inches LCD touch screen						
Alarm	Mains fail , battery low Pre -Alarm, Inverter Trip, fans fault etc						
Max. parallel numbers	6						
EMI	EN62040–2						
EMS	IEC/En 62040-1-1 IEC/EN 50091-1 IEC/EN 60950 (Safety) IEC/EN 50091-2			IEC/EN 62040-2 (EMC Emission) IEC/EN 620040-3 (Performance & Design) IEC/EN 61000-4 (EMC Emmunity) IEC/EN 60146 (Design & Manufacture)			
COMMUNICATIONS							
RS232 / RS485 / USB / dry contacts	Supports Windows 98 / 2000 / 2003 / XP / Vista / 2008 / 7 / 8 /10						
SNMP (option)	Power management from SNMP manager and web browser						
OTHERS							
Humidity	0 ~ 95% RH @ 0 ~65℃(non–condensing)						
Noise level	⩽50 dB						
Dimensions (mm) W × D × H	600 × 900 × 1360				600 × 900 × 1550		
Packaged dimensions (mm) W × D × H	720 × 1020 × 1500				720 × 1020 × 1700		
Net / Gross weight (kg) without Inbuilt battery	196 / 205	200 / 210		203 / 212	260 / 280		265 / 285

- 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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