

ATP-990 G4

20kVA ~ 120kVA

208V (3:3), PF 1.0



Features

- Advanced dual-core DSP control technology and 3-level IGBT technology.
- Output power factor 1.0.
- Active Power Factor Correction Technology, input power factor up to 0.99.
- System efficiency improved to 94%, energy saving rate is doubled.
- Working efficiency up to 98% in ECO mode.
- Dual input design, supporting independent bypass.
- Advanced digital and parallel technology, providing higher reliability than single system.
- Wide input voltage range, 50 / 60 Hz auto-sensing frequency.
- 50 Hz / 60 Hz frequency conversion mode.
- Compact internal layout, small footprint.
- Fan speed varies intelligently with temperature, reducing noise and extending its service life.
- Features strong fault tolerance, one fan damaged takes 50% of the load, two fans damaged take 30% of the load.
- Conformal coating technology to make UPS operate in harsh environment for a long time.
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check.
- Linear downgrading in low voltage input reducing battery discharging times.
- Flexible battery configuration setting, selectable battery numbers: 16 - 24 pcs.
- Digitally controlled charger (Max. 48 A).
- Ability to switch on the UPS by battery in the absence of mains power (Cold start).
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted.
- Settable delayed start time when mains power is restored.
- 5 inches LCD colorful touch screen, friendly human & machine interface.
- Powerful background software for parameters configuration and online upgrade.
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, RJ45, dry contacts, SNMP card, Wi-Fi card and GPRS card.
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life.
- Options and accessories: RS232, USB, RS485, RJ45, parallel, dry contacts EPO and battery temperature compensation interfaces supplied; optional SNMP card, Wi-Fi card, GPRS card, battery temperature sensor, EMO detector and SMS alarms.

Specifications

MODEL	ATP-9920	ATP-9930	ATP-9940	ATP-9960	ATP-9980	ATP-99100	ATP-99120
Capacity	20kVA /20kW	30kVA/30kW	40kVA /40kW	60kVA /60kW	80kVA /80 kW	100 kVA /100 kW	120 kVA /120 kW
INPUT							
Input wiring	Three-phase five-wire (3P + N + PE)						
Rated voltage	190 / 208 / 220 Vac						
Voltage range	166 - 277 Vac (no downgrading), 114 - 166 Vac (linear downgrading between 40% - 100% load)						
Rated frequency	50 / 60 Hz (auto-sensing)						
Frequency range	40 - 70 Hz						
Power factor	0.99						
Bypass voltage range	-40%- +25% (settable)						
Total harmonic distortion (THDi)	< 3%						
OUTPUT							
Output wiring	Three-phase five-wire (3P + N + PE)						
Rated voltage	190 / 208 / 220 Vac						
Voltage regulation	±1%						
Frequency	Synchronized with utility in mains mode, 50 / 60 Hz ±0.1% in battery mode						
Waveform	Sinusoidal						
Power factor	1						
Total harmonic distortion (THDv)	< 2% (linear load); < 5 % (non-linear load)						
Crest factor	3:1						
Overload	105% -110% for 60 min, 110% -125% for10min, 125% -150% for1 min, >150% for 0.2 s						
BATTERIES							
DC voltage	± 120 Vdc (± 96 - ± 144 Vdc settable)						
Number of batteries	20 pcs (16 - 24 pcs settable); 20 kVA built-in battery: 40 pcs 9 Ah/12 V, 60 pcs 9 Ah/12 V optional; 30 kVA built-in battery: 60 pcs 9 Ah/12 V;						
Charging current (max.)	12A		24A		36A		48A
Recharge time	Depend on the capacity of battery						
SYSTEM							
Efficiency	Max. 94% in online mode, 98% in ECO mode						
Transfer time	0ms						
Protections	Short-circuit, overload, over temperature, excessive low battery, overvoltage, under voltage, fans failure						
Max. number of parallel connections	4						
Communications	Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card						
Display	5 inches colorful LCD touch screen						
OTHERS							
Operating temperature	0°C - 40°C						
Storage temperature	-25°C - 55°C (without battery)						
Relative humidity	0% - 95% (non-condensing)						
Altitude	< 1000 m; above 1000 m, downgrading 1% for each additional 100 m						
IP rating	IP 20						
Noise level at 1 m	< 65 Db						
Dimensions (W x D x H) (mm)	360 x 850 x 885		360 x 850 x 1200	440 x 850 x 1200	600 x 850 x 1200		
Packaged dimensions (W x D x H) (mm)	450 x 940 x 1055		450 x 940 x 1370	530 x 940 x 1370	700 x 950 x 1370		
Net weight (kg)	100 (w/o BAT) 200 (w/ BAT)	100 (w/o BAT) 260 (w/ BAT)	155	160	230	265	
Gross weight (kg)	115 (w/o BAT) 215 (w/ BAT)	115 (w/o BAT) 275 (w/ BAT)	170	185	255	290	

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

