

# Three-phase online UPS ATP 990

Power: 20~100KVA

Input Voltage: 190/208/220Vac Output

Voltage: 190/208/220Vac



The ATP990 UPS (20-100KVA), is a three-phase, intelligent and pure sine wave high-power, three-phase online equipment based on reliable, advanced and high-efficiency digital/analog hybrid technology. It offers advanced DSP control, 5-inch LCD touchscreen. Composed of advanced high-power IGBT and SCR for maximum performance.

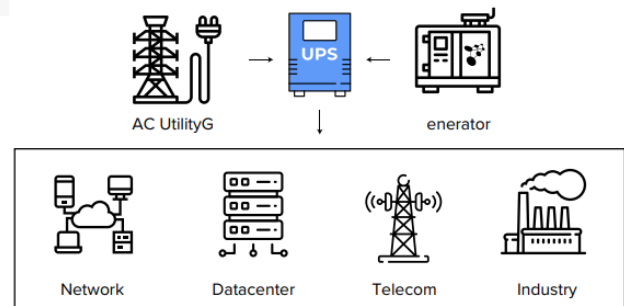
## Characteristics

- 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
- The efficiency of the system has been improved to 94% and the energy saving rate has been doubled  
Working efficiency of up to 98% in ECO mode  
Dual-input design, compatible with independent bypass
- Advanced digital and parallel technology, providing greater reliability than a single system  
Wide input voltage range, 50/60 Hz auto-sensing frequency
- 50 Hz / 60 Hz frequency conversion mode Compact internal design, small footprint
- Fan speed intelligently varies with temperature, reducing noise and extending fan life  
It features strong fault tolerance, one damaged fan takes 50% of the load, two damaged fans take 30% of the load
- Conformal coating technology to make the UPS work in harsh environments for a long time

- Effective hardware and software protection, robust self-diagnostic function, abundant event logging for future testing
  - Linear degradation at the low-voltage input reduces battery discharge times
  - Flexible battery configuration, selectable battery numbers: 16 - 24 pieces
  - Digitally controlled charger (max. 48 A)
  - Possibility to turn on the UPS with batteries in the absence of mains power (cold start)
  - Zero switching time, ensuring uninterrupted output
  - Configurable boot time delay when mains power is restored
  - 5-inch LCD touch screen, user-friendly interface.
  - Intelligent battery management, automatic equalized and floating load control, charger latency control, improving charger reliability and extending battery life.
- Options & Accessories: RS232, USB, RS485, RJ45, Parallel Contacts, EPO Dry Contacts, and Battery Temperature Compensation Interfaces supplied; optional SNMP card, Wi-Fi card, GPRS card, battery temperature sensor, EMO detector and SMS alarms

## Fields of application

The ATP990 UPS can be used in applications such as; networks and servers, datacenters, power supply for workstations, office equipment and in production processes in the industrial sector.



## Technical Specifications

MODEL	ATP-9920	ATP-9930	ATP-9940	ATP-9960	ATP-9980	ATP-99100
Capacity	20kVA /20kW	30kVA/30kW	40kVA /40kW	60kVA /60kW	80kVA /80kW	100 kVA /100 kW
<b>INPUT</b>						
Input wiring	Three-phase five-wire (3P + N + PE)					
Nominal voltage	190 / 208 / 220 Vac					
Voltage Range	166 - 277 Vac (no degradation), 114 - 166 Vac (linear degradation between 40% and 100% load)					
Nominal Frequency	50   60 Hz (auto-detect)					
Frequency Range	40 - 70 Hz					
Power Factor	0.99					
Shunt Voltage Range	-40%- +25% (configurable)					
Total Harmonic Distortion (THDI)	< 3%					
<b>OUTPUT</b>						
Output wiring	Three-phase five-wire (3P + N + PE)					
Nominal voltage	190 / 208 / 220 Vac					
Voltage regulation	±1%					
Frequency	Synchronized with utility in network mode, 50/60 Hz ±0.1% in battery mode					
Wave	Sinusoidal					
Power Factor	1					
Total Harmonic Distortion (THDv)	< 2% (linear load); < 5% (non-linear load)					
Crest factor	03:01					
Overload	105 % -110 % for 60 minutes, 110 % -125 % for 10 minutes, 125 % -150 % for 1 minute, >150 % for 0.2 s					
<b>BATTERIES</b>						
DC Voltage	± 120 VDC (± 96 - ± 144 VDC configurable)					
Number of batteries	20 pcs (16 - 24 pcs configurable); Built-in 20 kVA battery: 40 pcs 9 Ah/12 V, 60 pcs 9 Ah/12 V optional; Built-in 30 kVA battery: 60 pcs of 9 Ah/12 V;					
Charging current (max.)	12A	24 A		36 A		48 A
Recharge Time	Depends on the battery capacity					
<b>SYSTEM</b>						
Efficiency	Max. 94% in online mode, 98% in ECO mode					
Travel time	0 ms					
Protections	Short circuit, overcharging, overheating, overly low battery, overvoltage, undervoltage, fan 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					
Monitor	5-inch colorful LCD touchscreen					
<b>OTHER</b>						
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, decreasing by 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 1035	360 x 850 x 1200	440 x 850 x 1200	600 x 850 x 1200	
Package Dimensions (W x D x H) (mm)	450 x 940 x 1055	450 x 940 x 1205	450 x 940 x 1370	530 x 940 x 1370	700 x 950 x 1370	
Peso net (kg)	95 (BAT excl.) 195 (in BAT)	130 (sin MTD) 260 (with MTD)	156	198	250	300
Peso gross (kg)	110 (sin MTD) 210 (in BAT)	145 (sin MTD) 275 (in BAT)	172	220	275	325

