

# Online 2-phase in / 2-phase out UPS

## ATP Pro 22

Power: 6 ~ 10KVA

Input voltage: 100 ~ 127 Vac (L-N)

Output voltage: 100 ~ 127 Vac (L-N)



ATP-Pro-22 is the high-density version of ATP-One series. With an output power factor 0.9 and 91% operating efficiency in online mode, it's suitable for powering a wide range of devices such as servers, data center, industrial processes, telecommunications and security systems.

### Operation panel

Displays information on the status of the UPS, input and output electrical parameters, charge percentage and backup time of the UPS system. Allows the selection of operating modes and configuration of equipment operating parameters.

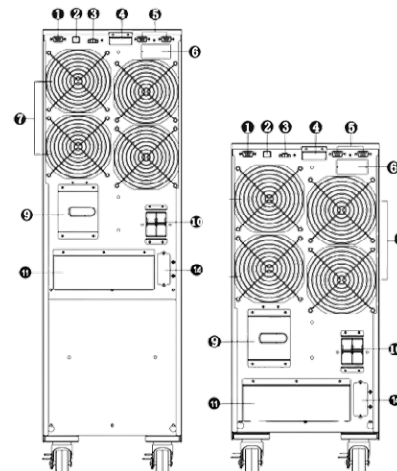


### ATP Pro 22 Features

- True double-conversion.
- DSP technology guarantees high performance.
- Output power factor 0.8.
- Wide input voltage range (60-150 VAC).
- Active input power factor correction 0.99.
- 50Hz/60Hz frequency converter mode.
- ECO mode operation for energy saving (ECO).
- Emergency power off function (EPO).
- Generator compatible.
- Charger capacity expansion to 8A for long-run models.
- SNMP/USB/RS-232 communications.
- 3-stage extendable charging design for optimized battery performance.
- Maintenance bypass available.
- Adjustable battery numbers.

### UPS Back panel

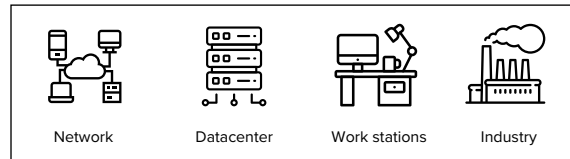
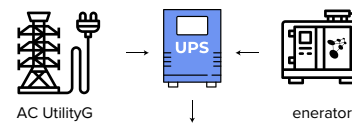
1. RS-232 communication port
2. USB communication port
3. Emergency power off (EPO connector)
4. Share current port (reserved for parallel model)
5. Parallel port (only reserved for parallel model)
6. Intelligent slot
7. Power stage fan
8. Charger fan.
9. Maintenance bypass switch
10. Input circuit breaker
11. Input/output terminal
12. Grounding terminal
13. Output terminal
14. External battery terminal (only for Long-run model)



## Application fields

Specially designed for the protection of sensitive equipment in general

- Network equipment
- Work stations
- Small industry
- Datacenter



## Connectivity options

 <p>WiFi / GPRS Card</p>	<p><b>WiFi Smart Card</b></p> <p>Wi-Fi Smart Card can enable wireless communication between On-Line UPS and monitoring platform. Users have complete and remote monitoring and controlling experience for UPS when combining Wi-Fi Smart Card with ViewPower APP, available for both iOS and Android based device.</p> <p><b>GPRS/3G Card</b></p> <p>Can collect the data from various device, and transmit data in GPRS or 3G system to data center. It's suitable for places where there is no access to Internet. The HTTP service of data center can manage and monitor several devices and can record all data/events within data center.</p>
 <p>SNMP Web Pro      SNMP Web</p>	<p><b>SNMP Web Pro Card, SNMP Web Box</b></p> <p>Embedded with Web Server and installed with SNMP Web Manager, it provides real-time remote monitoring and controlling multiple UPSs from anywhere with internet access. Integrated with ViewPower Pro software, it can monitor and control a big-scale UPS monitoring system.</p>
 <p>Modbus card</p>	<p><b>Modbus Card</b></p> <p>The Modbus card provides UPS the functionality of communication with PCs through MODBUS RTU protocol. When each UPS installed with one Modbus card, up to 31 UPSs can be monitored from one computer.</p>
 <p>9 pin port      DB9 port</p>	<p><b>Relay Card</b></p> <p>The AS400 communication card provides contact closures for remote monitoring UPS. To meet different application requirement, the AS400 card is capable of selection the status of the dry-contact signal (active close or active open) by setting jumper.</p>
 <p>EMD      EMD</p>	<p><b>Environmental Monitoring Device (EMD)</b></p> <p>Used to remotely monitor temperature and humidity via SNMP manager. It also provides two dry contacts to receive signals from devices such as security and alarm system.</p>

## Technical specifications

MODEL	ATP Pro 22- 6K (L)	ATP Pro 22 - 6K R (L)	ATP Pro 22 - 10K (L)	ATP Pro 22-10K R (L)	
PHASE	2-phase in / 2-phase out				
CAPACITY	6000 VA / 4800 W		10000 VA / 8000 W		
<b>INPUT</b>					
Nominal Voltage	100/110/115/120/127 VCA (L-N)				
Voltage Range	60-150 VAC (Ph-N) at 50% load ; 80-140 VAC (Ph-N) at 100% load				
Frequency Range	46~54 Hz o 56~64 Hz				
Phase Angle	0°/120°/180°/240°				
Power Factor	0.99 @ 100% Load				
<b>OUTPUT</b>					
Output Voltage	100/110/115/120/127 VCA (L-N)				
Phase Angle	0°/120°/180°/240°				
AC Voltage Regulation (Batt. Mode)	± 1%				
Frequency Range (Synchronized Range)	46~54 Hz o 56~64 Hz				
Frequency Range (Batt. Mode)	50 Hz ± 0,1 Hz o 60 Hz ± 0,1 Hz				
Current Crest Ratio	3:1 (max.)				
Harmonic Distortion	2 % THD (Linear Load), 5 % THD (Non-linear Load)				
Transfer Time	AC Mode to Battery Mode	Cero			
	Inverter to Bypass	Cero			
	Inverter to ECO	< 10 ms			
Waveform (Batt. Mode)	Pure Sinewave				
<b>EFFICIENCY</b>					
AC Mode	90.5%		91%		
ECO Mode	96%		96%		
Battery Mode	87%		88%		
<b>BATTERY</b>					
Standard Model	Battery Type	12 V / 7 Ah		12 V / 9 Ah	
	Numbers	10 pcs x 2 strings		10 pcs x 2 strings	
	Typical Recharge Time	5 hours recover to 90% capacity		7 hours recover to 90% capacity	
	Charging Current (max.)	2.0 A		2.0 A	
	Float Charging Voltage	136,5 V CC			
Long-run Model	Battery Type	Depending on applications			
	Numbers				
	Charging Current (max.)	8.0 A			
	Float Charging Voltage	136,5 V CC			
<b>INDICATORS</b>					
LCD Display	UPS status, Load level, Battery level, Input/output voltage, Discharge timer, and Fault conditions				
<b>ALARM</b>					
Battery Mode	Sounding every 4 seconds				
Low Battery	Sounding every second				
Overload	Sounding twice every second				
Fault	Continuously sounding				
<b>PHYSICAL</b>					
Standard Model	Dimension, D x W x H(mm)	592 x 250 x 576	UPS unit:668 x 438 x 133 [3U]	592 x 250 x 826	UPS unit:668 x 438 x 266 [6U]
			Battery pack: 580 x 438 x 133 [3U]		Battery pack: 580 x 438 x 133 [3U]
	Net Weight (kgs)	83	UPS unit: 22	100	UPS unit: 45
			Battery pack: 63		Battery pack: 63
Long-run Model	Dimension, D x W x H(mm)	592 x 250 x 576	668 x 438 x 133 [3U]	592 x 250 x 576	668 x 438 x 266 [6U]
	Net Weight (kgs)	28	22	38	45
<b>ENVIRONMENT</b>					
Operation Humidity	0-95 % RH @ 0- 40°C (Non-condensing)				
Noise Level	Less than 60dB @ 1 Meter				
<b>MANAGEMENT</b>					
Smart RS-232 / USB	Supports Windows2 2000/2003/XP/Vista/2008, Windows2 7/8, Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				

\* Derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC

Product specifications are subject to change without further notice.

