

WELLSAN

energy is mandatory



HOME/OFFICE



EMERGENCY



MEDICAL



INDUSTRY

WS - SERIES

1/2/3 kVA

1:1
PHASE

ONLINE UPS



UPS ONLINE



TOWER



POWER FACTOR



PLUG & PLAY

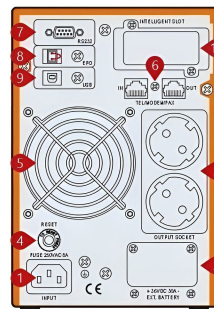


FEATURES

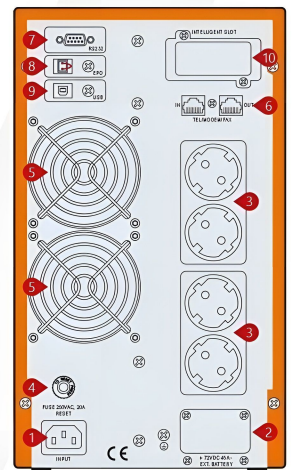
- High Frequency and True Double-Conversion
- DSP (Digital Signal Processors) Technology
- Input Power Factor Correction (PFC)
- Wide Input Voltage Range (110~300V)
- Output Power Factor 0.9
- Cold Start
- Auto Sensing Frequency
- ECO Mode Operation for Energy Saving
- Selectable Output Voltage via LCD
- Output Bypass Settable via LCD
- Power-On Self Test
- Advanced Battery Management (ABM)
- Short Circuit and Overload Protection
- Automatic Charging in Off Mode
- Auto Control Fan Speed when Loads Varies
- Generator Compatible
- Standard RS232 Communication Port and RJ45 Protection
- USB/SNMP Communication Port (Optional)
- Emergency Power Off (EPO) (Optional)
- Extension Battery Bank (Optional)
- Built-In Isolation Transformer (Optional)

DETAILS

1. AC Input
2. DC Input
3. Outlet
4. Breaker
5. Fan
6. Modem/Tel/Fax
7. RS232
8. USB (Optional)
9. EPO (Optional)
10. SNMP/AS400 (Optional)



Rear Panel
1kVA



Rear Panel
2/3kVA



address : **turk zafer- mah. babacagi Sok. No. 50 bahcelievler-**

Istanbul - Turkey .

www.wellsan-ups.com.tr

sales@wellsan-ups.com.tr

+90559832194

+90559832192

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specification									
Capacity	1kVA / 900W			2kVA / 1800W			3kVA / 2700W		
INPUT									
Related Voltage	208V / 220V / 230V / 240 VAC								
Voltage Range	110 ~ 176 VAC (Linear Derating Between 50% and 100% load); 176 ~ 280 VAC (No Derating); 280 ~ 300 VAC (Derating 50%)								
Frequency	40 ~ 70 Hz (Auto Sensing)								
Power Factor	≥ 0.99								
Bypass Voltage Range	-25% ~ +15% (Settable)								
OUTPUT									
Voltage Range	208V / 220V / 230V / 240 VAC (Settable via LCD)								
Voltage Regulation	±1%								
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (Synchronized Range); 50 / 60 Hz ±0.1 Hz (Battery Mode)								
Waveform	Sinusoidal								
Crest Factor	3:1								
Harmonic Distortion	≤2% (Linear Load); ≤5% (Non-Linear Load)								
Nominal Voltage	Mains Mode to Battery Mode: 0ms Inverter Mode to Bypass Mode: 4ms (Typical)								
Overload Capability	105% ~ 125%: Transfer to Bypass in 1min 125% ~ 150%: Transfer to Bypass in 30s >150%: Transfer to Bypass in 300ms								
EFFICIENCY									
Mains Mode	≥90%			≥91%			≥92%		
Battery Mode	≥85%			≥86%			≥87%		
ECO Mode	≥95%			≥96%			≥97%		
BATTERIES									
DC Voltage	24 V	36 V	36 V	48 V	72 V	72 V	72 V	96 V	96 V
Inbuilt Battery	2 x 7Ah	3 x 7Ah	External	4 x 7Ah	6 x 7Ah	External	6 x 7Ah	8 x 7Ah	External
Charging Current (Max.)	1A		6A	1A		6A	1A		6A
Recharge Time	8 hour								
ALARMS									
Utility Failure	Beep / 4sec								
Low Battery	Beep / 1sec								
Overload	Beep Twice / 1sec								
UPS Fault	Long Beep								
ENVIRONMENTAL									
Operating Temperature	0 ~ 40°C								
Relative Humidity	0 ~ 90% (Non-Condensing)								
Noise Level	≤45 dB (1m)								
COMMUNICATION									
RS232 (Standard) / USB (Optional)	Supports Windows® 98/2000/2003/XP/Vista/2008/Windows® 7/8/10								
SNMP (Optional)	Power Management from SNMP Manager and Web Browser								
DIMENSIONS & WEIGHT	1kVA / 900W			2kVA / 1800W			3kVA / 2700W		
Dimension WxDxH (mm)	144 x 336 x 214	144 x 414 x 214	144 x 336 x 214	191 x 418 x 335				191 x 464 x 335	191 x 418 x 335
Packaging Dimensions WxDxH (mm)	232 x 417 x 318	231 x 492 x 316	232 x 417 x 318	318 x 533 x 471				320 x 573 x 471	318 x 533 x 471
Net Weight (kg)	9.5	13	6	18	25.7	10.5	27.2	32	11
Gross Weight (kg)	10.5	14.2	7	19.5	27.4	12	29	34	12.5

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