

# tuncmatik ULTRAONE

## 300/400/500/600 kVA

ONLINE UPS (3/3)



# ULTRAONE

### Ultra silent, Ultra compact, Ultra easy maintenance

In the logic of a modular UPS, with a modular design and can continue to operate partially with a missing module, our ultra quiet and compact Ultra series UPSs, offers unique ease of use to our valued customers.

### Transformase-free structure

The use of transformase-free technology results in a significant reduction in the volumes and weights of the devices. Also the device provides improvements in important coefficients such as the ratio between the power of the device and the area it occupies. Since there is no transformer at the inverter outputs of transformerless UPSs, the electrical power loss of the device decreases and the efficiency of the device increases. This increase in efficiency reduces electricity costs. In addition, there is a reduction in acoustic noise level in transformerless UPSs. Since the DC intermediate circuit voltage is low in conventional UPSs, the increase in the UPS output voltage to the voltage level to be applied to the load is only achieved by using a step-up transformer at the inverter output; in transformerless UPSs, since the DC intermediate circuit voltage is already high enough, the voltage boost feature of the transformer is not needed.

### Wide input voltage range

138-485 VAC. No load reduction is required when the input voltage is  $\geq 305$  VAC.

### Power Saving

High input power factor, PF=0.99. It does not impose an additional compensation load on your main. It saves on your electricity bill.

### High output power factor

Output power factor PF=1. UPS can power 100% unbalanced load. High adaptability for load, full inductive load or full capacitive load can be connected.



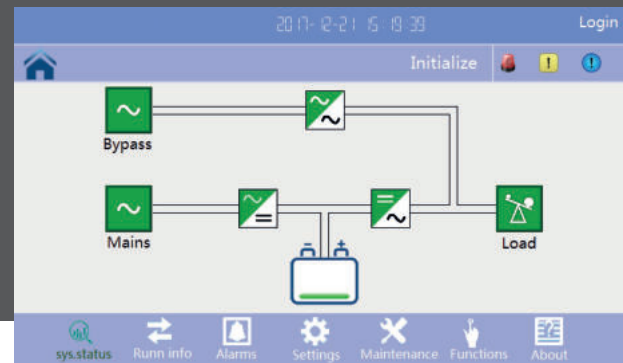
### Parallel structure (Optional)

Ability to parallel up to 6 units, to achieve power redundancy, without the need for additional investment costs. A communication cable is sufficient for this.

### Generator compatibility

By facilitating power transition from generator to load, it allows you to use generator with lower capacity.

### COLOURED LCD DISPLAY



With the easy to read multifunctional LCD display everything is under control. Thanks to new advanced LCD screen, input-output values and alarms can be easily monitored.



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MODEL		300 kVA	400 kVA	500 kVA	600 kVA
CAPACITY (kVA/kW)		300	400	500	600
INPUT					
Nominal Voltage		380/400/415 VAC			
Phase		3 Phase + Neutral + Earth			
Voltage Range		138~ 485Vac			
Frequency Range		40Hz - 70Hz			
Power Factor		≥0.99			
Current THDi		≤3% (100% non-linear load)			
Bypass Voltage Range		220Vac Max Voltage: +25%(optional +10%,+15%,+20% ); 230Vac Max Voltage: +20%(optional +%10, +%15); 240Vac Max Voltage: +15%(optional +10% ); Min. voltage: -45% (optional -%10, -%20, -%30); Frequency protection range: ±10%			
OUTPUT					
Power Factor		1.0			
Nominal Voltage		380/400/415 VAC			
Voltage Regulation		±%1			
Frequency	Line Mode	Input frequency > ±10% when (±1%, ±2%, ±4%, ±5% optional), output (50/60 ±1%)Hz (50/60±0.1)Hz			
	Battery Mode				
Crest Factor		3:1			
THDv		≤%2 (linear load), ≤%4 (non-linear load)			
Overload	Line Mode	Load ≤110%: 60 min., ≤125%: 10 min, ≤150%: 1 min.			
	Battery Mode				
	Bypass Mode	Temperature <30℃, load ≤135%: works for long time / Temperature <40℃, load ≤125%: works for long time / %1000 load : runs up to 100ms			
Efficiency		%95			
Transfer Time		Normal to battery: 0ms; Normal to bypass: 0ms			
BATTERY					
Voltage		Optional Voltagej: ±180V/192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc (30/32/ 34/36/38/40/42/44/46/48/50 peice optional) 360Vdc~600Vdc (30~50 peice, 30 peice defined, 32 & 50 peice without power loss; 30 peice output power factor 0.8)			
Charge Crrnt (A)*		100A	120A	160A	180A
SYSTEM FEATURES					
Status LED & LCD		Line mode, Bypass mode, Battery low, Battery fault, Overload, UPS failure			
LCD Panel		Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Batery voltage			
Audio & Visual		Line failure, Low battery, Overload, System fault			
EPO (optional)		UPS shuts down			
ENVIRONMENTAL					
Operating Temperature		0℃ ~ 40℃			
Storage Temperature		-25℃ ~ 55℃ (without battery)			
Humidity		0~ 95% relative humidity (non-condensing)			
Noise Level		<70dB	<71dB	<72dB	<73dB
Altitude		<1500m. When >1500m, reduce the rated power for use			
DIMENSIONS & WEIGHT					
W x D x H (mm)		600 x 850 x 1600	600 x 850 x 2000	1200 x 850 x 2000	
Weight (kg)		398	537	794	
STANDSRDS					
Safety		CE/EN/IEC62040-1, EN/IEC62040-1-1			
EMC		IEC/EN62040-3, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8			

\* Adjustable according to battery capacity