

**tuncmatik**  
**ULTRA ONE**  
**300/400/500/600 kVA**  
**ONLINE UPS (3/3)**



# ULTRA ONE

**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.



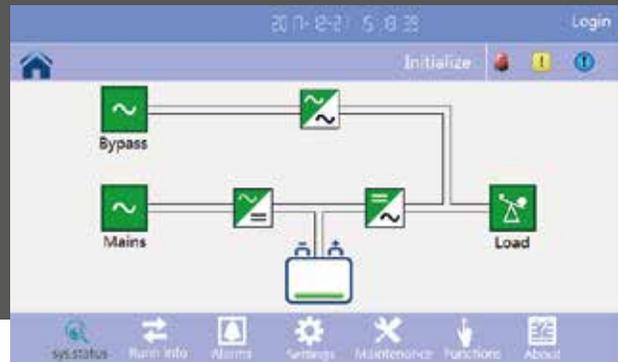
**Parallel structure (Optional)**

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.

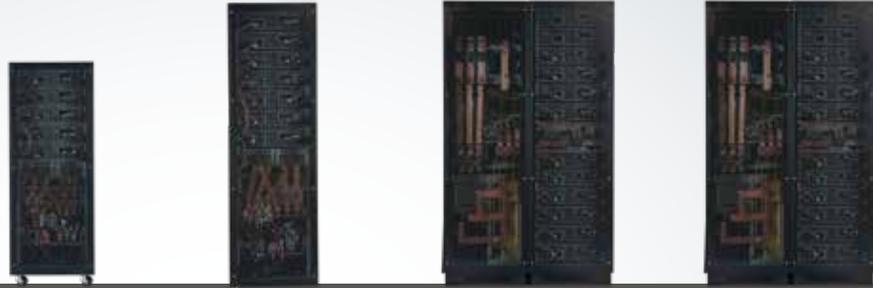
**COLOURED LCD DISPLAY**



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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CAPACITY	300 kVA 300 kW	400 kVA 400 kW	500 kVA 500 kW	600 kVA 600 kW
<b>INPUT</b>				
Phase	Three Phase+Neutral+Earth			
Rated voltage	380/400/415 VAC			
Voltage range	138~485 VAC			
Frequency range	40 Hz-70 Hz			
Current THDi	≤3% (100% non-linear load)			
Bypass voltage range	Max.voltage: 220 VAC:+25% (optional +10%, +15%, +20%); 230 VAC:+20% (optional +10%, +15%); 240 VAC:+15% (optional +10%); Min. voltage:-45% (optional -10%, -20%, -30%) Frequency Protection Range: ±10%			
Power factor	≥ 0,99			
<b>OUTPUT</b>				
Rated voltage	380/400/415 VAC			
Power factor	1			
Voltage regulation	±1%			
Frequency	1.Line Mode: sync with login; input frequency > ±% 10 when (±1%/±2%/±4%/±5% optional), output (50/60±0.1%)Hz. 2.Battery Mode:(50/60±0.1%)Hz			
Crest Factor	3:1			
THDi	≤2% linear load ≤4% non-linear load			
Efficiency	95%			
Transfer time	Normal to battery: 0ms; Normal to bypass: 0ms			
Overload	AC Mode	Load ≤110%: 60 min. ≤125%: 10 min. ≤150%: 1 min.		
	Battery Mode	Load ≤110%: 60 min. ≤125%: 10 min. ≤150%: 1 min.		
	By-pass Mode	Temperature ≤30 °C, load ≤ 135%: works for a long time / Temperature ≤ 40 °C, load ≤ 125% works for a long time / 1000% load: runs up to 100ms		
<b>BATTERY</b>				
Voltage	±180V/192V/±204V/±216V / ±228V/±240/±252/±264/±276/±288/±300 VDC (30/32/34/36/38/40/42/44/46/48/50 peice optional) 360 VDC~600 VDC (30~50 piece, 40 piece defined; 30 adet çıkış güç faktörü 0.8)			
Charge current (A) adjustable according to battery capacity	100 A	120 A	160 A	180 A
<b>SYSTEM FEATURES</b>				
Status LED & LCD	Mains mdu, Bypass mode, Battery low, Battery faulty, Overload & UPS failure			
LCD Panel	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage			
Audio & Visual	Line failure, Low battery, Overload, System fault			
EPO (Opsional)	UPS shuts down			
<b>DIMENSIONS &amp; WEIGHT</b>				
D x W x H (mm)	600 x 850 x 1600	600 x 850 x 2000	1200 x 850 x 2000	
Weight (kg)	398	537	794	
<b>ENVIRONMENTAL</b>				
Operating temperature	0~40°C			
Humidity	0-95% relative humidity (non-condensing)			
Noise level	<70dB	<71dB	<72dB	<73dB
Storage temperature	-25°C~55°C (without battery)			
Altitude	<1500m. > when 1500m, reduce the rated power for use			
<b>SOFTWARE &amp; MANAGEMENT</b>				
Operating Systems	Muser 5000: Windows 10 64 bit			
Interfaces	CAN, RS485, FE, LBS, Parallel, relay card, SNMP card (optional)			
<b>STANDARDS</b>				
EMC	IEC/EN62040-3,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8			
Safety	CE,EN/IEC 62040-3,EN/IEC 62040-1-1			