

TECHNICAL CATALOG



ED Series UPS

160-800 kVA Three phase

- IGBT Rectifier
- Digital Signal Processing (DSP) Technology



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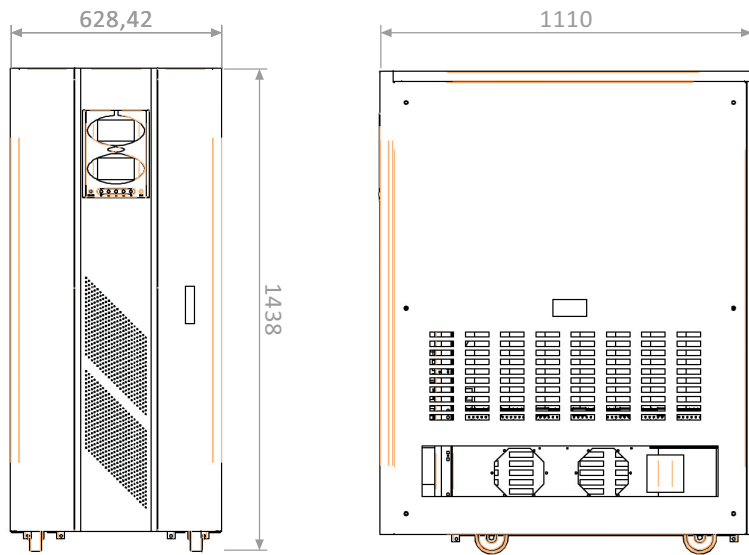
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1. GENERAL SPECIFICATIONS

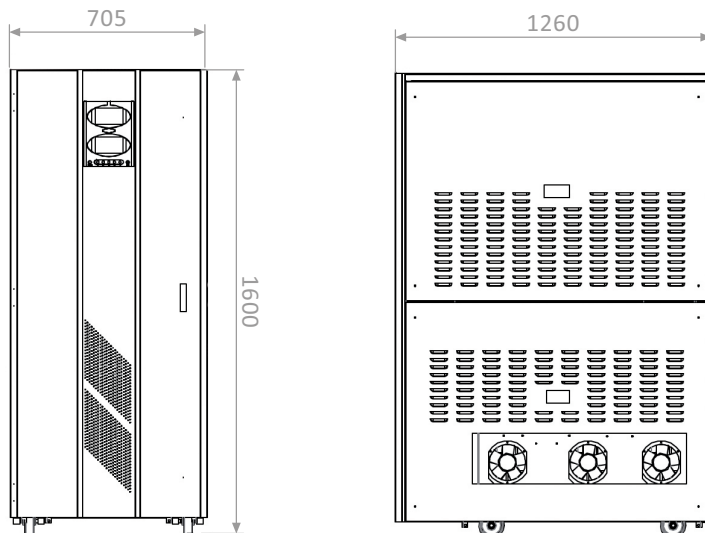
Construction

Power	Sn (kVA)	160	200	250	300	400	500	600	700	800
	Pn (kW)	144	180	225	270	360	450	540	630	720
Width		630	705	780	780	2200	2200	2200	3500	3500
Depth		1110	1260	1260	1260	810	810	810	810	810
Height		1450	1600	1850	1850	2030	2030	2030	2030	2030
Weight (kg)		525	590	850	870	1380	1600	1800	2050	2200
Colour		RAL7012								

160 kVA Outline Drawings



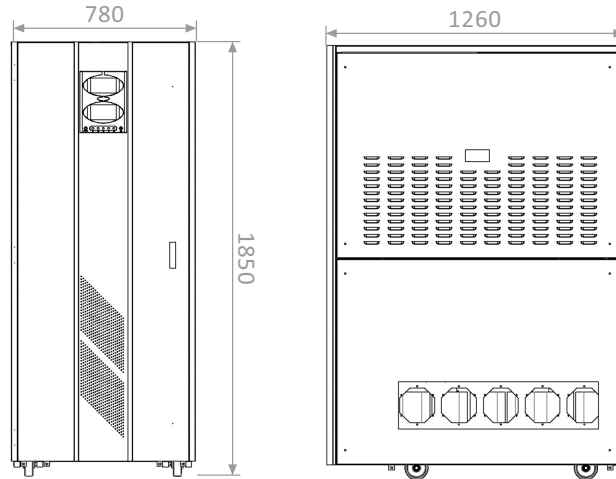
200 kVA Outline Drawings



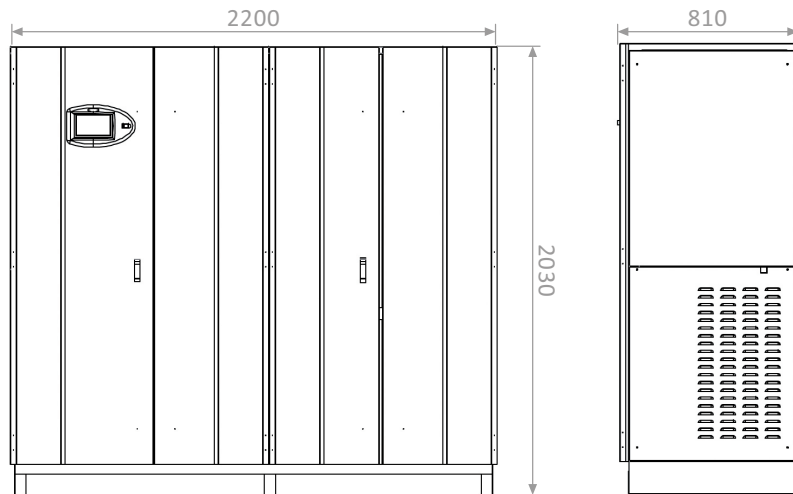
1. GENERAL SPECIFICATIONS

Construction

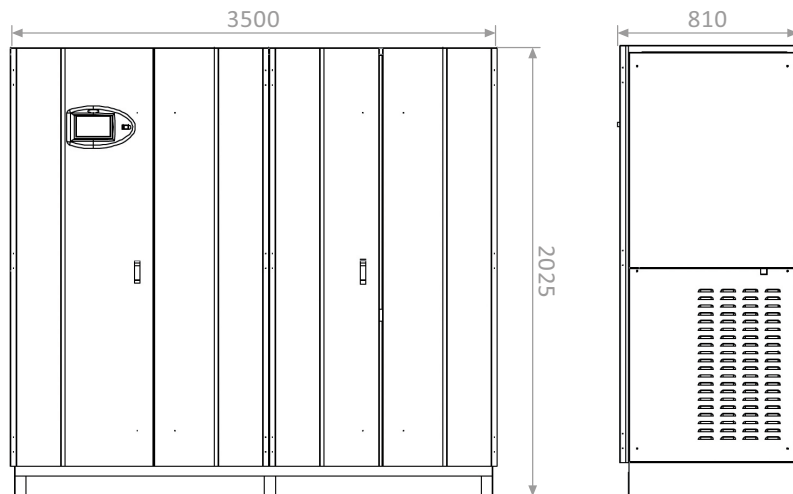
250-300 kVA Outline Drawings



400-600 kVA Outline Drawings



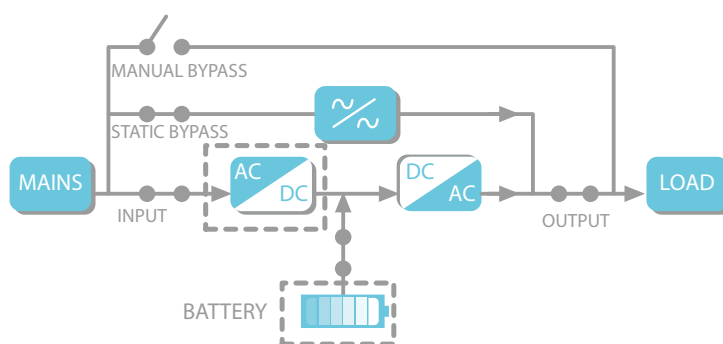
700-800 kVA Outline Drawings



Electrical Characteristics -Bypass

Dual Input	Optional
Voltage	380 /400 /415 Vac 3Ph + N
Voltage Tolerance	± 10% (adjustable)
Frequency	50 / 60Hz
Frequency Tolerances	± 4% (adjustable up to ± 10%)
Maintenance Bypass	Standard

Battery



Batteries are charged by the rectifier.

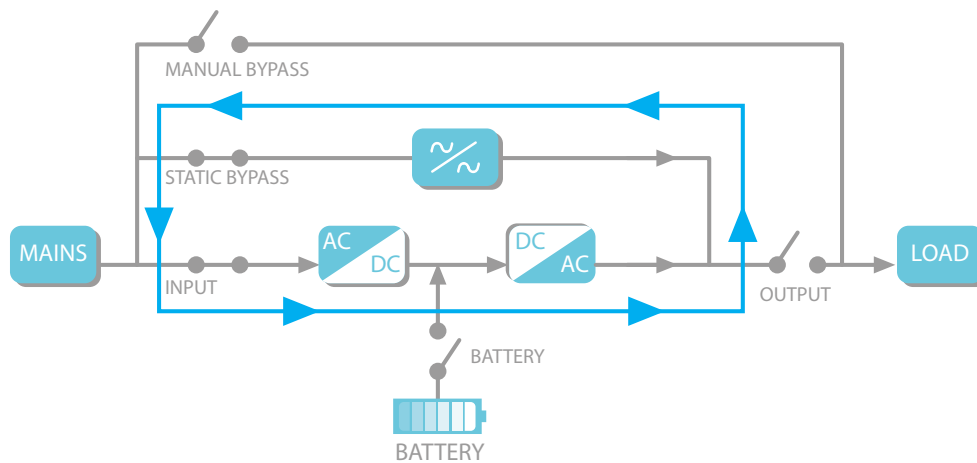
UPS Model Rating	160	200	250	300	400	500	600	700	800
Battery Type	Sealed lead-acid battery								
Battery Blocs	For 380Vac		60 blocs /360 cells						
	For 400/415Vac		64 blocs / 384 cells						
Battery Charging Current (A)	16,7	20,8	26	31,2	41,7	52	62,5	72	82,3
Battery Cut off Voltage	615VDC (for 380V output voltage)								
	655VDC (for 400/415V output voltage)								

Electrical Characteristics -Output

UPS Model Rating	160	200	250	300	400	500	600	700	800
Technology	Three level inverter								
Rated Output Voltage	380 / 400 / 415V								
Voltage Tolerances	± 1%(static load), dynamic load in accordance with VFI-SS-11								
Rated Output Frequency	50 / 60 Hz								
Frequency Tolerances	± 0.1% (self-synchronize), ± 1%(mains -synchronize, adjustable up to ± 5%)								
Total Voltage Distortion	<2% at linear load, <5% at non-linear load								
Power Factor	0,9								
Crest Factor	3:1								

Output Current (A)	380V	218	272	340	408	544	680	816	955	1091
	400V	208	260	325	390	520	650	780	913	1043
	415V	200	250	313	375	500	626	750	875	1000
Short Circuit Capability	3In (on inverter 100ms)									
Over Load at 25°C	110 % 1 hour ,130 % 10 minutes, 150 % 1 minute									
Output Voltage Dynamic Variation	±%1 in 2ms.									

Regenerative Loading

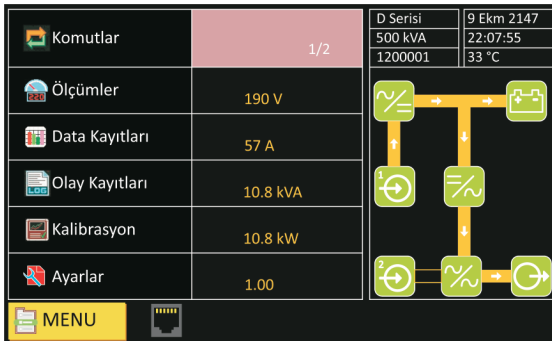


This feature through, UPS doesn't need load bank for testing after service for calibration and full loads test. This new technology affords significant advantages over traditional load bank testing methods, including:

- **Time savings:** This process can be performed quickly, saving countless hours over procuring, installing and connecting a load bank to the output of the UPS.
 - **Cost savings:** Without the need to rent a load bank, customers reduce their energy bill and pay for far fewer hours of testing.
 - **A green solution:** The UPS essentially circulates power through itself, while only drawing minimal power from the utility, only a small amount of utility power is lost.
- Enhanced confidence during repairs or preventive maintenance: This process provides a thorough stress test of the repaired system before it is reconnected to the customer's critical computer system, resulting in enhanced reliability and facility uptime

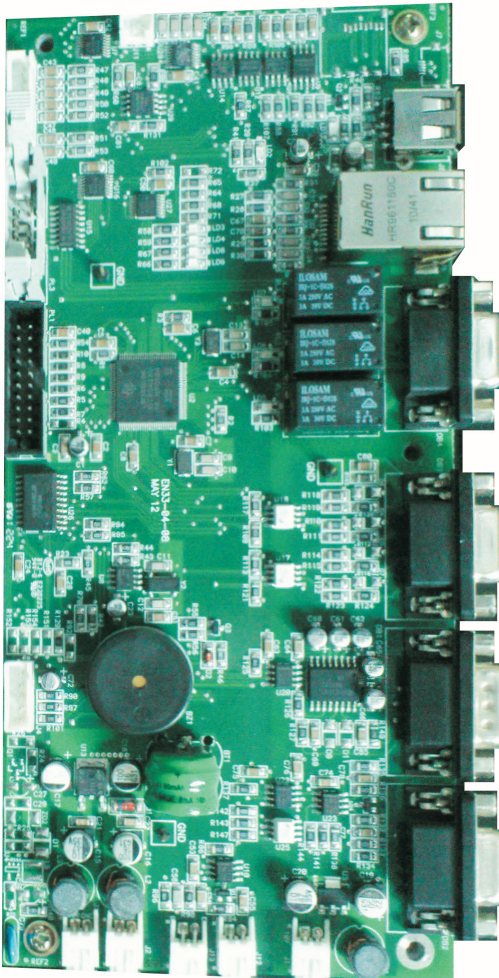
Communications

TFT LCD Touch Screen



- Data Record
- Languages: German, English, Portuguese, French, Polish, Hungarian, Italian, Spanish.
- MicroSD 4GB
- Internal SNMP Optional
- E-mail/SMS, PC/Server Shut Down
- Fault Detection From Remote
- Remote monitoring and management

Communication Board



- USB, RS232/RS485
- 3 (Standard) + 4 (Optional) Programmable User Entrance (NO /NC) Contact Outputs
- General alarm, Service Alarm
- Custom inputs

