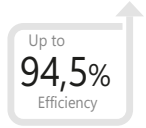


# ProXtend HE Series

Online, Three Phase VFI UPS



Robust, Reliable



10-1000 kVA **3:3**  
IN/OUT

## ProXtend HE

### Critical Power Protection, Zero Downtime!

The UPS ProXtend HE presents robust, proven power protection & performance, highest availability, versatility and flexibility for harshest environments, loads and systems in power infrastructure whilst reducing TCO & time for ROI.

The **ProXtend HE** gives the user *Power of Control*.



### Product Snapshot

- Transformerless UPS Technology, High Frequency IGBT Rectifier & Inverter
- S1 Continuous Duty Operation, Class VFI - SS – 111 Voltage Frequency Independent
- Real DSP Microprocessor Control, High Fault-Tolerance, Faster & Superior Control
- Over-Engineered, Redundancy & Robustness in Critical Boards
- Selectable Output Voltage from 210V to 255V (L-N) / from 360V to 440V (L-L)
- Compability with Wide Variety of Loads, Backfeed (Regenerative Loading)
- Smart Control Features and Adjustable Operation Parameters via User Interface
- True Flexibility & Compability with Wide Variety of Loads & Systems, such as :  
MRI & Computerized Tomography, Medical Facility Loads,  
CNC and/ or Backfeed (Regenerative Loading), Loads with High Inrush Current like  
Motors, Pumps, Conveyor Belts, Mixers, Compressors, Blowers,  
Industrial Facilities, Plastic Injection & Moulding ... etc.
- User Friendly UI & Smart Monitoring via 1500 Real Time Event Log with Detailed Parameters
- User Friendly Multilingual 320x240 Graphic Display Provides Operation Information
- Monitoring and Shutdown Software
- RS232 Serial and RS485 Ports
- 2 Communication Slots
- Frequency & Voltage Converter Mode (Between 380/ 400/ 415Vac & 50/ 60 Hz)
- EN 50171 Compliant version for Emergency Lighting Systems.

### Options & Accessories

- Isolation Transformer for Input and/ or Output
- Advanced Connectivity, Monitoring & Management via  
TCP/ IP Network Management Card, GSM Communication, Wi-Fi Networks Connectivity,  
ModBUS RTU / ModBUS TCP, Relay Outputs (Dry Contacts),  
ProfIBUS, Remote Display Panel, Remote Emergency Power Off
- IP Classified Enclosures are Available from IP21 to IP65
- 10 inches Touchscreen Panel with User Friendly Interface

### Features & Applications | ProXtend HE

- Robust, Reliable,  
Conformity to Global Standards 
- 360/ 380/ 400/ 415/ 440/ 480Vac,  
50 60 Hz Networks 
- Industry, Industrial Zones,  
Industrial Facilities, Factories, Plants,  
Production, Manufacturing Industries 
- Military, Army Bases, Airbases, Naval Forces,  
Shipyards, Marine & Maritime 
- Airports, Shopping Malls,  
Hotels, Residents, Towers  
- Hospitals, Medical Centers and Facilities,  
Medical Applications, Clinics  
Banks, Financial Institutions  
- Field Operations of Oil & Gas Industry,  
Power Plants, Petro-Chemical Industry  
- Telecom Towers, Field Base Stations,  
Datacenters, Buildings  
- Transportation, Railways,  
Tunnels, Highways 

» Innovation, Reliability  
TSINE | Power Quality

tsinepower  
» Innovation, Reliability

**Technical Specifications**

MODEL																
Rated/ Apparent Power [in kVA]		10kVA	15kVA	20kVA	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	80kVA	100kVA	120kVA
Active Power [in kW]		9kW	13.5kW	18kW	9kW	13.5kW	18kW	27kW	36kW	54kW	72kW	90kW	108kW	72kW	90kW	108kW
INPUT																
Nominal Voltage	380/400/415 VAC 3 P+N (Optional 220/380 VAC -37% +22% 3 P+N+PE)															
Voltage Tolerance	-20% +15%															
Frequency Tolerance	50 / 60 Hz ±10% (Selectable)															
Power Factor	>0.99															
Total Harmonic Distortion (THDi)	<3%															
OUTPUT																
Power Factor	0.9, optional 1, Unity of, kVA=kW															
Nominal Voltage	380/400/415 VAC 3 P+N															
Voltage Tolerance	@ Static Load ±1, @ Dynamic Load ±3															
Frequency Tolerance	50 / 60 Hz ±0,01% (Battery Mode)															
Output THD	Linear Load <1% / Non-Linear Load <3%															
Crest Factor	3:1															
Overload Capacity*	At 125% Load 10min, At 150% Load 1min															
Efficiency (Online Mode)*	Up to 94,5%															
Efficiency (Eco Mode)	Up to 99%															
BYPASS																
Nominal Voltage	380/400/415 VAC 3 P+N															
Voltage Tolerance	%15 (Configurable from 10% to 30%)															
Frequency Tolerance	±5 (Selectable)															
BATTERY																
Type	VRLA / GEL															
Quantity (12V DC VRLA)	62															
Charge Capacity	25% of Active Power (Nominal 0,1 C10, Adjustable)															
Recharge Time	6-8 hours															
Internal Battery	62 x 7Ah or 9Ah	60 x 7Ah or 9Ah	External Battery													
ENVIRONMENTAL																
Operating Temperature	For UPS 0°C/+40°C For Battery +15°C/+25°C															
Storage Temperature	For UPS -15°C/+45°C For Battery 0°C/+30°C															
Protection Class	IP20															
Humidity	0-95% (Without Condensation)															
Altitude	<1000m: Correction Factor 1, <2000m: Correction Factor >0.92, <3000m: Correction Factor >0.84															
Noise Level	<53dBA	<53dBA	<55dBA	<60dBA	<65dBA	<65dBA	<65dBA									
CONNECTIVITY																
Monitoring & Management	RS232 Standard, RS485 and SNMP Adapter, GSM & Wi-Fi Network Comm. Option															
STANDARDS																
Quality	ISO 9001, ISO 14001, ISO 45001, ISO 10002, CE, TSE, TSE-HYB															
Performance	EN62040-3 (VFI-SS-111, Bureau Veritas Certified)															
EMC/LVD	EN62040-2, EN62040-1, TS EN ISO/IEC 17025 Accredited Test Report															
DIMENSIONS & WEIGHT		10kVA	15kVA	20kVA	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	80kVA	100kVA	120kVA
Cabinet Dimensions (mm)	Width	370			490						530			763	810	
	Depth	660			805						780			771	820	
	Height	850			1190						1290			1555	1705	
Net Weight (kg)	85	85	85	125	126	131	145	173	323	222	231	240	331	353	368	
Packing Dimensions (mm)	Width	500			600						650			900	900	
	Depth	760			900						900			970	970	
	Height	1000			1400						1400			2040	2040	
Gross Weight (kg)	105	105	105	145	146	151	166	193	353	253	261	270	361	383	398	

\* under certain conditions.

3 Phase in / 1 Phase Out Version is Available. (10 to 30kVA)

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TSINE does not guarantee the items of the accuracy and completeness.

**Technical Specifications**

MODEL										
Capacity		160kVA	200kVA	250kVA	300kVA	400kVA	500kVA	600kVA	800kVA	1000kVA
Power Watt		144kW	180kW	225kW	270kW	360kW	450kW	540kW	720kW	900kW
INPUT										
Nominal Voltage		380/400/415 VAC 3 P+N (Optional 220/380 VAC -37% +22% 3 P+N+PE)								
Voltage Tolerance		-20% +15%								
Frequency Tolerance		50 / 60 Hz ±10% (Selectable)								
Power Factor		>0.99								
Total Harmonic Distortion (THDi)		<3%								
OUTPUT										
Power Factor		0.9, optional 1, Unity of, kVA=kW								
Nominal Voltage		380/400/415 VAC 3 P+N								
Voltage Tolerance		@ Static Load ±1, @ Dynamic Load ±3								
Frequency Tolerance		50 / 60 Hz ±0,01% (Battery Mode)								
Output THD		Linear Load <1% / Non-Linear Load <3%								
Crest Factor		3:1								
Overload Capacity*		At 125% Load 10min, At 150% Load 1min								
Efficiency (Online Mode)		Up to 94,5%								
Efficiency (Eco Mode)		Up to 99%								
BYPASS										
Nominal Voltage		380/400/415 VAC 3 P+N								
Voltage Tolerance		15% (Configurable from 10% to 30%)								
Frequency Tolerance		±5 (Selectable)								
BATTERY										
Type		VRLA / GEL								
Quantity (12V DC VRLA)		62								
Charge Capacity		25% of Active Power (Nominal 0,1 C10, Adjustable)								
Recharge Time		6-8 hours								
Internal Battery		External Battery								
ENVIRONMENTAL										
Operating Temperature		For UPS 0°C/+40°C For Battery +15°C/+25°C								
Storage Temperature		For UPS -15°C/+45°C For Battery 0°C/+30°C								
Protection Class		IP20								
Humidity		0-95% (Without Condensation)								
Altitude		<1000m: Correction Factor 1, <2000m: Correction Factor >0.92, <3000m: Correction Factor >0.84								
Noise Level		<72dBA			<74dBA			<75dBA		
CONNECTIVITY										
Monitoring & Management		RS232 Standard, RS485 and SNMP Adapter, GSM & Wi-Fi Network Comm. Option								
STANDARDS										
Quality		ISO 9001, ISO 14001, ISO 45001, ISO 10002, CE, TSE, TSE-HYB								
Performance		EN62040-3 (VFI-SS-111, Bureau Veritas Certified)								
EMC/LVD		EN62040-2, EN62040-1, TS EN ISO/IEC 17025 Accredited Test Report								
DIMENSIONS & WEIGHT		160kVA	200kVA	250kVA	300kVA	400kVA	500kVA	600kVA	800kVA	1000kVA
Cabinet Dimensions (mm)	Width	830			1200			2000		
	Depth	870			825			870		
	Height	1800			1854			2050		
Net Weight (kg)	475	490	553	830	840	850	1510	1740	1740	
Packaging Dimensions (mm)	Width	900			1370			2100		
	Depth	970			845			950		
	Height	2040			2040			2250		
Gross Weight (kg)	505	520	583	870	880	890	1590	1820	1820	

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