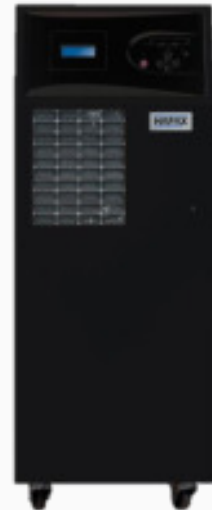


HAPAX ECOBOX SERIES ONLINE UPS

10 – 120 kVA 3/3 PHASE

10 – 30 kVA 3/1 PHASE

- ✓ IGBT Rectifier & Inverter Technology
- ✓ 0,9 Output Power Factor
- ✓ Up to 93% Online Efficiency
- ✓ VFI-SS-111 Type
- ✓ Low Input Current THD
- ✓ Suitable for Industrial and Medical Applications
- ✓ Static & Manual Bypass Operation
- ✓ Generator compatibility



Standard Electrical Features

Short Circuit & Overload Protection
User Friendly LCD Display and Mimic Diagram
High Input Power Factor
Parallel Operation
Backfeed Protection
Advanced Battery Management
Battery Temperature Sensor
1500 Real Time Event Log
EPO
Wide Input Voltage Range

Optional Features

Input & Output Voltage Selection
Can work with 50Hz and 60Hz Grids
Can work with Isolation Transformers in the Input or Output
Different IP protection classes upon request
Output voltage can be adjusted by the LCD panel.
Extra Wide Input Voltage Range
Cold Start
Monitoring And Shutdown Software
SNMP, Dry Contact, Modbus Communications

Technical Specifications

MODEL	10 - 120 kVA 3/3 Phase ; 10- 30 kVA 3/1 Phase								
Capacity	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA
Power Watt	9kW	13,5kW	18kW	27kW	36kW	54kW	72kW	90kW	108kW
INPUT									
Nominal Voltage	380/400/415 VAC 3P+N (Optional 220/380 VAC -37% +22% 3P+N+PE)								
Voltage Tolerance	-20% +15%								
Frequency Tolerance	50-60 Hz \pm 10% (Selectable)								
Power Factor	>0.99								
THDi	THDi <3%								
OUTPUT									
Power Factor	0.9								
Nominal Voltage	380/400/415 VAC 3P+N (Selectable)								
Voltage Tolerance	Static \pm 1, Dynamic \pm 3								
Frequency Tolerance	50-60 Hz \pm 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)	Up to 93%								
Efficiency (Eco Mode)	Up to 99%								
BYPASS									
Nominal Voltage	380/400/415 VAC 3P+N								
Voltage Tolerance	Configurable from 10% to 30%								
Frequency Tolerance	\pm 5 (Selectable)								
BATTERY									
Type	VRLA / GEL								
Qty. (12V DC VRLA)	62								
Charge Capacity	25% of Active Power (Nominal 0,1 C10, Adjustable)								
Internal Battery	62 x 7Ah or 9Ah for 10-15-20-30kVA Capacity, 40kVA and over with external battery set								
GENERAL									
Running 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								
Communication Port	Standard: RS232, EPO ; Optional: SNMP, Dry Contact, Modbus, RS485								
Quality	ISO 9001, ISO 14001, ISO 18001, CE								
Performance	EN62040-3 , VFI-SS-111								
EMC/LVD	EN62040-2, EN62040-1, EN60950								
DIMENSIONS & WEIGHT									
Noise Level	<53 dBA	<55 dBA	<60 dBA	<65 dBA	<72 dBA	<72 dBA	<74 dBA	<75 dBA	<75 dBA
UPS Width mm	530								
UPS Depth mm	810								
UPS Height mm	1290								
UPS Weight-Kg	122	123	127	146	167	177	275	310	320
Packaging Width mm	650								
Packaging Depth mm	900								
Packaging Height mm	1450								
Packaging Weight-kg	140	141	145	164	185	195	310	345	355