



# ESTIA UPS

3 Phase In - 3 Phase Out / 10 - 20 kVA

- On-Line "Double Conversion" technology
- Real DSP (Digital Signal Processor) Controlled Processor
- High Input Power Factor (PFC > 0,99)
- High Efficiency
- Low Input Current Harmonics (THDi < 3%)
- Low Output Voltage Harmonics (THDv < 1,5%)
- Easy-use LCD Display
- Energy Saving Mode (ECO Mode)
- Cold Start
- Redundancy and Power increase thanks to Paralleling feature (Optional)
- Wide Frequency and Voltage Range
- Smart Battery Management Software & Deep Discharge Protection
- Automatic Battery Test Feature
- Adjustable Battery Quantity
- External Battery Support for Long Backup time (Optional)
- Battery Recharge Support with High Current (up to 9A)
- Standard built-in Static and Manual Bypass
- Short circuit and Overload Protection
- Built-in Back Feed Protection
- Temperature Controlled Smart Fan Speed Regulation
- Frequency Converter Operation Mode Selection
- Generator Compatible Operation
- Advanced Event Records
- Statistical Daily Data Records
- Broad Communication Option
- Standard: RS-232, USB, EPO, GENSET, STS Sync
- Optional: SNMP, Relay Card, Modbus
- Two Years Full Warranty in accordance with ISO 9001, ISO 14001, CE standards
- INFORM 7/24 Technical Support and Customer Services

NEW  
PRODUCT



UPS ONLINE



TOWER



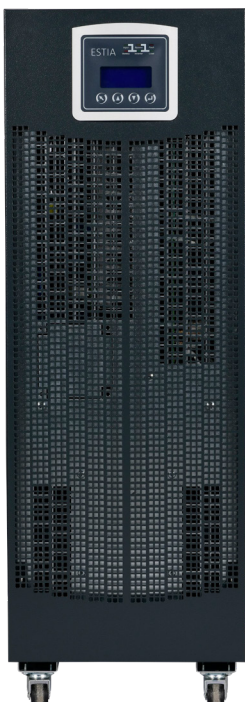
USB



LCD DISPLAY  
(10-20kVA)



SERVICE



# Estia

## TECHNICAL SPECIFICATIONS

MODEL	ESTIA 10KVA	ESTIA 15KVA	ESTIA 20KVA
Capacity (kVA/kW)	10kVA/8kW	15kVA/12kW	20kVA/16kW
<b>INPUT</b>			
Phase Number	3Ph + N + PE		
Nominal Voltage	380 / 400 / 415 VAC		
Voltage Range (VAC) (100% Load)*	[-15%] [+20%]		
Voltage Range (VAC) (50% Load)*	[-45%] [+20%]		
Frequency	50/60 Hz $\pm$ 10% (Auto Sensing)		
Input Power Factor	>0,99		
Input Current Harmonics (THDi) **	<3%		
<b>OUTPUT</b>			
Output Power Factor	0,8		
Phase Number	3Ph + N + PE		
Nominal Voltage	380 / 400 / 415 VAC (Adjustable from LCD menu)		
Voltage Harmonics (THDv) **	< 1,5% (Linear Load), <3% (Nonlinear Load)		
Frequency	50Hz or 60Hz (Adjustable from LCD menu)		
Frequency Tolerance	Utility Mode: Rated frequencies $\pm$ 1% $\pm$ 2% $\pm$ 4% $\pm$ 5% $\pm$ 10% Battery Mode: {50/60 $\pm$ 0.2%}Hz		
Voltage Regulation	$\pm$ 1%		
Crest Factor	3:1		
Transfer Time	Online-Battery : 0ms; Online-Bypass: 0ms		
Overload	10 minutes at 110% load; 1 minute at 125% load; 10 seconds at 150% load		
Efficiency*	Up to 93%		
<b>STATIC BYPASS</b>			
Static Bypass Voltage Tolerance	380/400/415 VAC (Adjustable from LCD menu -15% +12%)		
Static Bypass Frequency Tolerance	47 Hz - 53 Hz (Adjustable)		
<b>BATTERY</b>			
Type	Maintenance-Free Dry Type		
Recharge Time (For Internal Battery)	4-6 hours up to 90%		
Battery Quantity (with Battery)	16x12V 9 Ah	24x12V 9 Ah	32x12V 9 Ah
Battery Quantity (without Battery)	16-32 pcs (on request)	24-32 pcs (on request)	32 pcs
Recharge Current (Max.)	max. up to 9A (Adjustable)		
Cold Start (Start-up in no mains)	Present		
<b>ALARMS</b>			
Audible & Visual	Mains Failure, Battery Low, Overload, System Fault		
<b>DISPLAY</b>			
Indicator LED & LCD	Online mode, Bypass mode, Battery Low, Overload & UPS Failure		
LCD Display	Input Voltage, Current & Frequency, Output Voltage, Current & Frequency, Output power values (KVA, KW), Load Power Factor (PF), Load Rate, Battery Voltage & Current, Battery backup time, Bypass Voltage & Frequency, Output Current, Crest Factor, Internal Temperature		
<b>PROTECTION</b>			
	Overload, Short circuit, High Temperature, Battery Deep Discharge		
<b>COMMUNICATION ***</b>			
	Standard:RS232, USB, EPO, GENSET, STS SYNC Optional: SNMP, Dry Contact, Modbus (RS485)		
<b>ENVIRONMENTAL CONDITIONS</b>			
Operation Temperature Range	0°C - 40°C (20°C - 25°C recommended temperature for long battery life)		
Storage Temperature	-25°C - +55°C (15 - 40°C recommended temperature for long battery life)		
Humidity	0 - 95% ( non-condensing )		
Operational Altitude	1500 meter		
Noise Level (from 1m distance)	<60 dB		
Protection Class	IP20		
<b>PHYSICAL SPECIFICATIONS</b>			
Dimensions (mm) (WxDxH)	295x620x700	295x620x875	
Weight (w/o battery) ( kg )	48,5	61,8	
Weight (with 12V 9Ah) ( kg )	90	124	145
Installation Type	Floor, Wheeled (Tower)		
<b>STANDARDS</b>			
	EN 62040-1(Safety), EN 62040-2 (EMC), EN 62040-3 (VFI-SS-111)		

\* Depending on rated power and load rate at the output

\*\* Depending on UPS power and environmental conditions

\*\*\* Please contact with your sales representative for communication options