



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



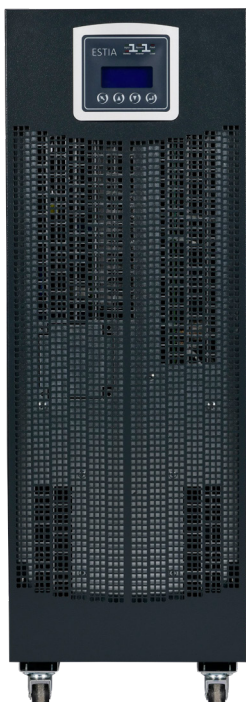
USB



LCD DISPLAY
(10-20kVA)



SERVICE



Estia

TECHNICAL SPECIFICATIONS

MODEL	ESTIA 10KVA		ESTIA 15KVA		ESTIA 20KVA	
Capacity (kVA/kW)	10kVA/8kW		15kVA/12kW		20kVA/16kW	
INPUT						
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 ±10% [Auto Sensing]					
Input Power Factor	>0,99					
Input Current Harmonics (THDi) **	<3%					
OUTPUT						
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 ±1% ±2% ±4% ±5% ±10% Battery Mode: [50/60±0.2%)Hz					
Voltage Regulation	±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%					
STATIC BYPASS						
Static Bypass Voltage Tolerance	380/400/415 VAC (Adjustable from LCD menu -15% +12%)					
Static Bypass Frequency Tolerance	47 Hz - 53 Hz (Adjustable)					
BATTERY						
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					
ALARMS						
Audible & Visual	Mains Failure, Battery Low, Overload, System Fault					
DISPLAY						
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					
PROTECTION						
	Overload, Short circuit, High Temperature, Battery Deep Discharge					
COMMUNICATION ***						
	Standard:RS232, USB, EPO, GENSET, STS SYNC Optional: SNMP, Dry Contact, Modbus (RS485)					
ENVIRONMENTAL CONDITIONS						
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					
PHYSICAL SPECIFICATIONS						
Dimensions (mm) (WxDxH)	295x620x700		295x620x875			
Weight (w/o battery) [kg]	48,5		61,8			
Weight (with 12V 9Ah) [kg]	90		128		145	
Installation Type	Floor, Wheeled (Tower)					
STANDARDS						
	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