



ESTIA UPS

3 Phase Input - 3 Phase Output / 10 - 160 kVA

- On-Line "Double Conversion" technology
- IGBT Rectifier & Inverter
- 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 (10-60 kVA)
- Wide Frequency and Voltage Range
- Smart Battery Management Software & Deep Discharge Protection
- Automatic Battery Test Feature
- Adjustable Battery Quantity (10-20kVA)
- External Battery Support for Long Backup time (External Battery Version)
- Battery Recharge Support with High Current
- Standard built-in Static and Manual Bypass
- Short circuit and Overload Protection
- Built-in Back Feed Protection (10-20kVA)
- Temperature Controlled Smart Fan Speed Regulation
- Frequency Converter Operation Mode Selection
- Generator Compatible Operation
- Advanced Event Log
- Statistical Daily Data Log
- Comprehensive Communication Options
- 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



UPS ONLINE



TOWER



USB

LCD DISPLAY
(10-160kVA)

SERVICE



TECHNICAL SPECIFICATIONS

MODEL	33010	33015	33020	33030	33040	33060	33080	330100	330120	330160
Capacity (kVA/kW)	10kVA 9kW	15kVA 13,5kW	20kVA 18 kW	30kVA 27kW	40kVA 36kW	60kVA 54kW	80kVA 72 kW	100kVA 80kW	120kVA 108kW	160kVA 144kW
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	0.9									
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 minute at 125% load, 1 minute 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										
Battery Connection	One String				Two Strings (with central neutral point)					
Type	Maintenance-Free Dry Type									
Recharge Time (For Internal Battery)	4-6 hours up to 90%									
Battery Qty (Compact Standard Bat.)	16x12V 9 Ah 32x12V 9 Ah	24x12V 9 Ah	32x12V 9 Ah	-						
Battery Qty (Compact External Bat.)	16-32 pcs (on request)	24-32 pcs (on request)	32 pcs	-						
Battery Qty (Tower Internal Bat.)	64x12V 9 Ah			60x12V 9 Ah	120x12V 9 Ah					
Battery Qty (Tower External Bat.)	16-32 pcs (on request)	24-32 pcs (on request)	32 pcs	60 pcs						
Recharge Current (Max.)	max. up to 9A (Adjustable)			3.3 A	4.4 A	6.5 A	8.7 A	10.8 A	13.0 A	17.4 A
Cold Start (Start-up without mains)	Present						-			
ALARMS										
Audible & Visual	48 type alarms (Details can be found in User manual)									
Event Log	1024 pcs									
DISPLAY										
Indicator LED & LCD	Online mode, Bypass mode, Battery Low, Overload & UPS Failure						5" TFT Colorful Graphical Touch Screen Display			
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)									
ENVIRONMENT 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)*	<55dBA						<62dBA		<69dBA	<71dBA
Protection Class	IP20									
PHYSICAL SPECIFICATIONS										
Dimensions (mm) (WxDxH) Compact	295x620x875			-						
Dimensions (mm) (WxDxH) Tower	389x800x1170				506x800x1326		670x770x1600		850x800 x1850	
Weight (w/o battery) [Compact]	48 kg	54 kg		-						
Weight (with 12V 9Ah) [Compact]	16 Blocks 88 kg 32 Blocks 128 kg	24 Blocks 114 kg	32 Blocks 134 kg	-						
Weight (w/o battery) [Tower]	87 kg	96 kg	100 kg	107 kg	138 kg	156 kg	210 kg	233 kg	350 kg	400 kg
Installation Type	Floor, 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.

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