



FLEXIBLE BATTERY CONFIGURATION
IN-BUILT AND EXTERNAL BATTERY
CONFIGS ALLOW FLEX BACKUP TIMES



HIGH POWER DENSITY
COMPACT UNITS ENSURES TO STORE
IT IN ANY LOCATION



FREQUENCY CONVERTER MODE
CAN BE OPERATED AS 50/60HZ
FREQUENCY CONVERTER



N+X PARALLELABLE
N+X PARALLEL CONFIGURATION WITH
EXTERNAL M. BYPASS

ENCLOVE Energy:
ON-LINE 3:1 Phase Tower Type
Uninterruptible Power Supplies

- High frequency online double conversion technology
- Three Level Technology - High Efficiency
- Advanced double core DSP
- Input Power Factor Correction (PFC)
- Wide Input Voltage Range (110-300V)
- Output Power Factor: 1 (kVA = kW)
- Cold Start (Start from Battery without Mains)
- Automatic Frequency Sensing
- ECO Mode for High Energy Efficiency
- Configurable Output Voltage from LCD
- Configurable Battery Turn Off Voltage from LCD (EoD)
- Configurable Operation Mode (3:1 / 1:1) from LCD
- 50/60Hz Frequency Conversion Mode
- Self Test on Power On
- Advanced Battery Management (ABM)
- Overload and Short Circuit Protection
- Automatic Battery Charge on OFF Mode
- Smart Fan Operation with Load Percentage
- Perfect GenSet compatibility
- Standard RS232 Communication Port
- Standard Emergency Power Off Function (EPO)
- USB/SNMP Communication Port (Optional)
- Extra Charger Board + Additional Battery (Optional)
- Manual Bypass and N+X Paralleling Feature (Optional)
- EMC Compatibility (EMC-LVD Certificates)
- 2 Years Warranty / 10 Years Spare Parts Warranty

REAR PANEL DETAILS

1. RS232
2. EPO (OPTIONAL)
3. PARALLEL PORT (OPTIONAL)
4. USB (OPTIONAL)
5. TEMPERATURE SENSOR (OPTIONAL)
6. COMMUNICATION SLOT
7. M. BYPASS BREAKER (OPTIONAL)
8. FANS
9. BYPASS BREAKER
10. INPUT BREAKER
11. EARTHING
12. CONNECTION TERMINALS



MODEL	EON3110-S	EON3110-L	EON3115-S	EON3115-L	EON3120-S	EON3120-L
POWER (kVA/kW)	10kVA / 10kW		15kVA / 15kW		20kVA / 20kW	
INPUT						
Wiring	3P+N+PE (5 Wires)					
Voltage	380 / 400 / 415 VAC					
Voltage Range	305 - 499VAC (Full Power) 50% to 100% linear de-rate @ 190 - 305VAC					
Frequency	40~70Hz (Auto Sensing)					
Input Power Factor	≥ 0,99					
Total Harmonic Distortion (THDi)	≤ 5%					
Bypass Voltage Range	-40%~+15% (LCD Panel Selectable)					
OUTPUT						
Wiring	1P+N+PE (3 Wires)					
Voltage	208 (PF=0.9) / 220 / 230 / 240 VAC (LCD Panel Selectable)					
Voltage Regulation	±%1 (Lineer Load)					
Frequency	50 / 60Hz					
Frequency Regulation	±%0.1 Hz (Lineer Load)					
Waveform	Pure Sine Wave					
Output Power Factor	1.0					
Crest Factor	3:1					
Total Harmonic Distortion (THDu)	Lineer Load ≤ %1 / Non Lineer Load ≤ %3					
Overload Characteristics	105% - 110% load - 10 mins (then Bypass) 110% - 125% Load - 1 min (then Bypass) 125% - 150% Load - 30 secs (then Bypass)					
Efficiency	On-Line Mode: ≥ %94 ECO Mode: ≥ %98					
Transfer Time	Bypass to INV: 0 ms INV to Bypass: <5ms					
BATTERY						
Battery Voltage	192VDC (192 - 240VDC Configurable)					
Battery Quantity	16 pcs. (16 to 20 Configurable)					
Internal Battery	12V / 9Ah x 16	N/A	N/A			
Battery Charge Current	1A	5A (10A Optional)				
Battery Re-Charge Time	8 hrs to 90%	Depend on the battery capacity / charger board capacity				
SYSTEM						
Protections	Short Circuit, Over Load, Over Temperature, Battery Low, Over Voltage, Low Voltage, Fan Failure					
Maximum Parallelable Units	4					
Communication	RS232 (standard), USB / RS485 / Dry Contacts / SNMP / Battery Temperature Compansation (Optional)					
HMI	LCD + LED Panel					
ENVIRONMENTS & STANDARDS						
Operation Temperature	0 °C- 40 °C					
Operation Humidity	%0 ~ %95 (Non-condensing)					
Storage Temperature	-40 °C~ 55 °C (without battery)					
Ingress Protection	IP20					
Audible Noise	<58 Db (1 meter away)					
Operation Altitude	≤1000m (without de-rate) / 1% de-rate in each 100 m after 1000m					
PHYSICAL PROPERTIES						
Net Dimensions (W*D*H)	191 x 495 x 711	191 x 495 x 350	191 x 495 x 515			
Packed Dimensions (W*D*H)	310 x 685 x 941	318 x 617 x 475	285 x 593 x 685			
Net Weight (kg)	64	18	26,5			
Packed Weight (kg)	72	20	28			

* Our company has the right to change the model, visual and technical specification information of the products without prior notice.