

# Astra Lite Modular 10 ~ 40KVA, Online Modular UPS

Reference Standard Safety - UL1778, CSA C22.2 No. 107.3-05, EMC - FCC Part 15, Subpart B Class A



## Features

- Rich LCD Display
- Rack Independent
- Unity Power Factor
- True Double Conversion
- Low THDi to reduce power system pollution
- Network Manageable
- Generator Compatible

## Additional Features

- Adjustable charging current
- Adjustable Battery Numbers
- Parallel operation with common battery
- Modular Connector Box with hot-swappable design for ease of power expansion, installation and maintenance



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## Technical Specifications

Model	E010APM33-GY	E010APM31-GY	E010APM11-GY		
Phase	3 Phase in / 3 Phase out	3 Phase in / 1 Phase out	1 Phase in / 1 Phase out		
Capacity	10000 VA / 10000 W	10000 VA / 10000 W	10000 VA / 10000 W		
Parallel Capability	10	10	10		
<b>Input</b>					
Nominal Voltage	3 x 360VAC/380VAC/400VAC/415VAC (3Ph+N+PE)		208VAC/220VAC/230VAC /240VAC(1Ph+N+PE)		
Voltage Range	190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load		110-300 VAC @ 50% load 176-276 VAC @ 100% load		
Frequency Range	40Hz ~70Hz				
Power Factor	>= 0.99 @ 100% Load				
Harmonic Distortion (THDi)	< 4% @ full linear load				
<b>Output</b>					
Output Voltage	360VAC/380VAC/400VAC /415VAC(3Ph+N)	208*/220/230/240VAC(L+N)	208*/220/230/240VAC(L+N)		
AC Voltage Regulation (Batt. Mode)	± 1%				
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz				
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz				
Current Crest Ratio	3:1 (max.)				
Harmonic Distortion	<= 2 % THD (Linear Load) ; <= 3 % THD (Non-linear Load)				
Transfer Time	AC Mode to Batt. Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)	Pure Sinewave				
<b>Efficiency</b>					
AC Mode	94%	94%	93.5%		
ECO Mode	97%	97%	97%		
Battery Mode	At Full Load	93%	92.5%		
	Peak	93.5%	92.5%		
<b>Indicators</b>					
LCD/LED Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions				



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Model	E010APM33-GY	E010APM31-GY	E010APM11-GY
<b>Battery/Charger</b>			
Battery Voltage	$\pm 12V / 9 Ah$		
Battery Numbers	16 ~ 20 pcs (adjustable) x 2	16 ~ 20 pcs (adjustable) x 2	16 ~ 20 pcs (adjustable) x 2
Nominal Voltage	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)
Maximum Voltage	+/- 240V (12V x 40 pcs)	+/- 240V (12V x 40 pcs)	+/- 240V (12V x 40 pcs)
Minimum Voltage	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)
Charging Voltage	$\pm 218V$	$\pm 218V$	$\pm 218V$
Typical Recharging Time	9 hours recover to 90% capacity		
Charging Current	$+/- 4A$		
<b>Physical</b>			
Dimension, D X W X H (mm)	678 X 418 X 129 [3U]		
Net Weight (kgs)	20.5		
<b>Environment</b>			
Operation Humidity	0-95 % RH @ 0- 40°C (non-condensing)		
Noise Level	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter
<b>Management</b>			
Smart USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		

