400A REMOTE POWER PANEL

Generation 3 of Atom Power's solid-state circuit breaker (SSCB) offers unprecedented protection utilizing silicon-carbide (SiC) power semiconductor technology. The Atom Power Panel is perfect for high-fault current environments where protection of critical assets is key.

Atom Panel

Up to 400A, 480VAC
3-phase, 4-Wire
(14) 3-phase SSCB's Panel



Atom Switch™ Solid-State Circuit Breakers

Up to 100A 3-phase



KEY FEATURES

- Advanced Current Limiting Fault Protection
- Ultra-high Interrupting Rating at 100,000 AIC
- Low Impedance Arc Flash Mitigation
- Remote Operation of Circuit Breakers
- 100% Rated for Continuous Current
- Adjustable Time Current Curve
- Integrated Supplemental Protection
- Integrated Power Metering
- Integrated lockout/tagout (LOTO) at each Atom Switch
- Reliability - full power cycle tests to >1,000,000 fully loaded cycles

BUY AMERICAN ACT COMPLIANT

Designed and Manufactured in North Carolina, USA.

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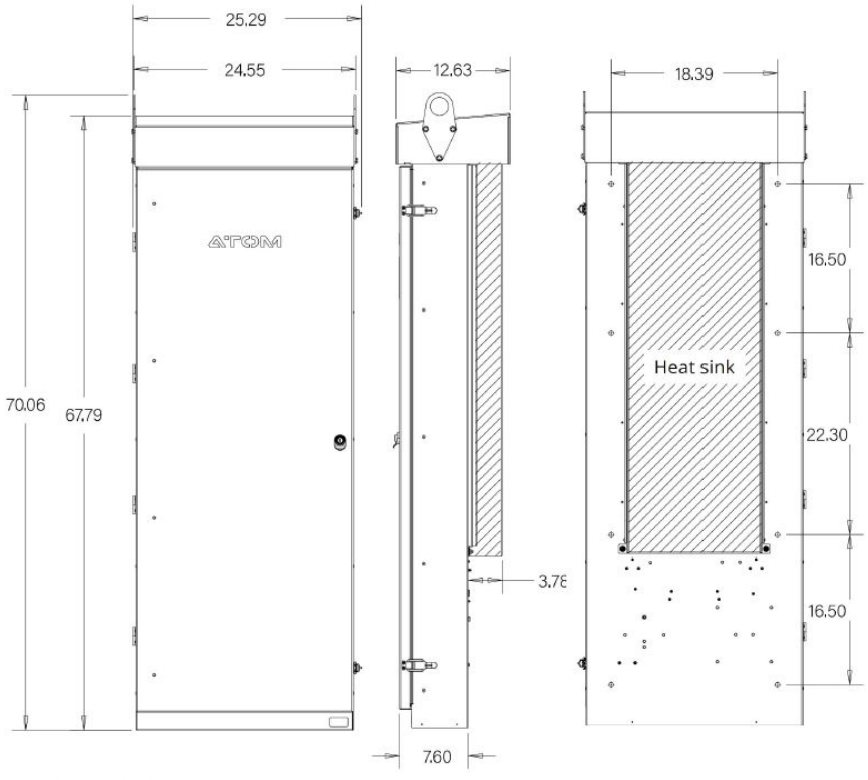
Atom RPP

Core Technical Specifications

Product Catalog Number	AP3P400
Maximum Quantity of Atom Switch SSCB's per Panel	14
Amperage Rating	Upto 400A
Voltage Rating	208/120 - 480/277VAC
Input Frequency	60Hz
Input Lugs	#6AWG – #300KCMIL CU/AL (2 per phase)
Neutral Bus	200%
Dimensions	24.55"W x 12.63"D x 70.06"H
Enclosure Rating	NEMA 3R
Weight (lbs) - Fully Loaded	203 (Empty)
Field Conduit Entry	Bottom, Sides
AIC Rating	100kA
Ambient Operating Temp.	-30°C to +40°C (-22°F to +104°F)
Humidity	0-90%, non-condensing
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Standards	UL 67
Sustainability	Buy America Act
Connectivity	Ethernet TCP/IP, HTTP/REST via internal Atom Gateway (see illustration next page)





Dimensions shown in inches

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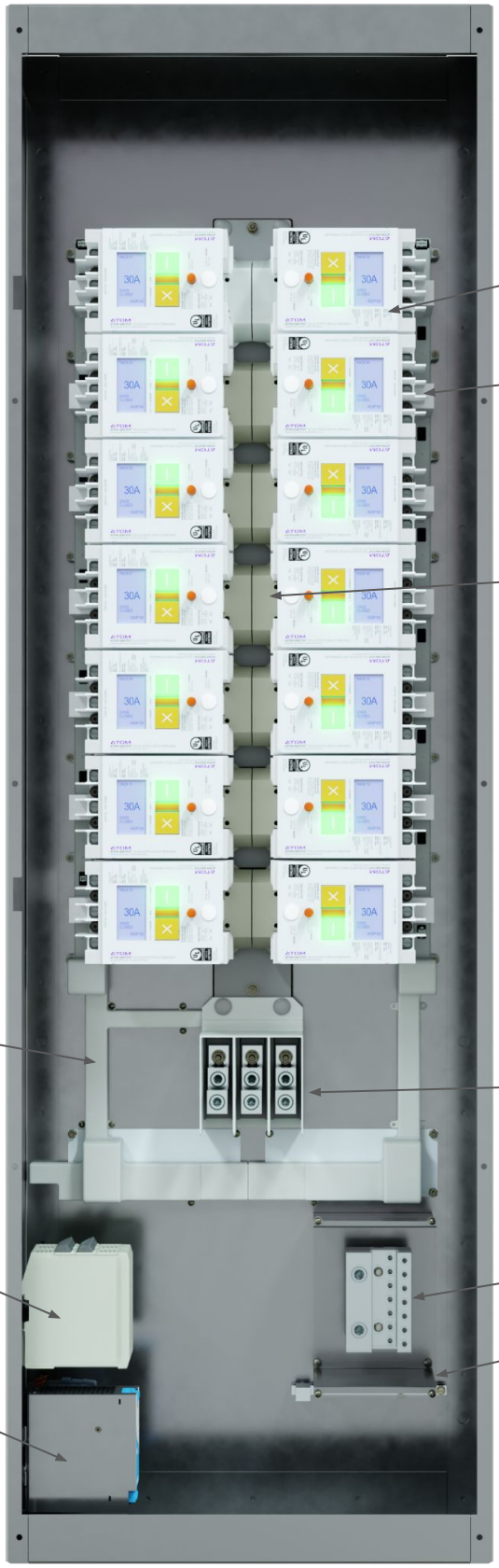
Atom Panel Interior



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Atom Switch

Core Technical Specifications

Product Catalog Number	AS3P100-3G
Input Voltage (VAC)	208/120 - 480/277 Y
Poles	3
Frame Size	100A
Long Time Trip Setting Range	15A - 100A
Long Time Trip Settable Increments	15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100 amp
Maximum Clearing Time	450 µS
Input Frequency	60Hz
Interrupting Rating	100kA across all voltage classes
Continuous Current Rating	100%
Maximum Peak Let-Through (current limiting)	1.5kA
Maximum Incident Energy (at 200kA fault)	0.02 cal/cm^2
Maximum I^2t (> 4kA)	<150.0A^{2}s
Ambient Operating Temperature (for full rating)	–30°C- 40°C
Humidity	0 to 95%, non-condensing
Storage temperature	–40°C - 85°C
Load Side Connection	#14AWG - 1/0AWG, CU/AL solid or stranded
Line Side Connection	Atom Panel connector pins standard.
Standards	UL 489/489i
Sustainability	Buy America Act
Additional Software-Defined Features	
Metering	Voltage +/- 5V, Current +/- 1A upto 100A
Electronic Lockout	Included
Over/under voltage Relay	+/- 5-10%, 1-20s
Over/under frequency Relay	45-65Hz, 1-20s
Voltage Balance Relay	+/- 5-10%, 1-20s
Undercurrent Relay	5-100A, 1-20s

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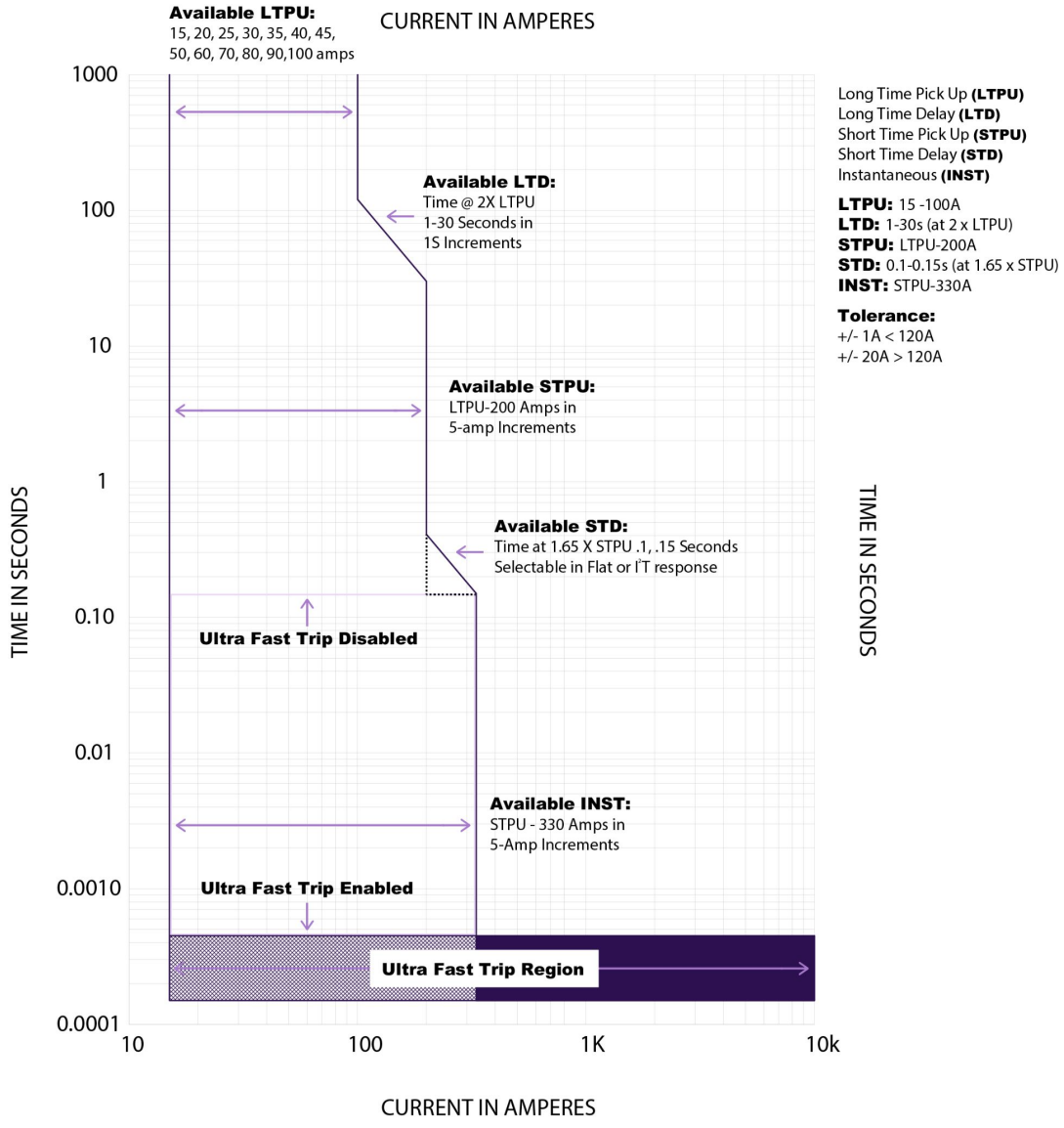
Time-Current Curve

Atom Switch - AS3P100





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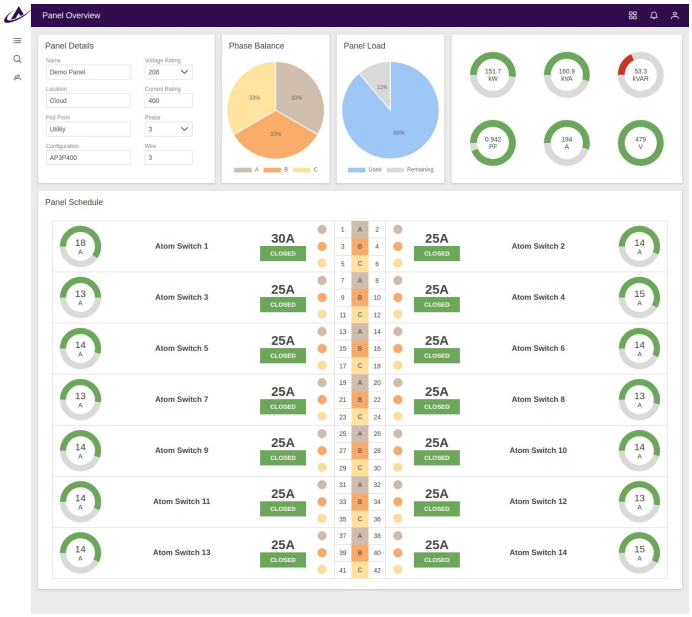
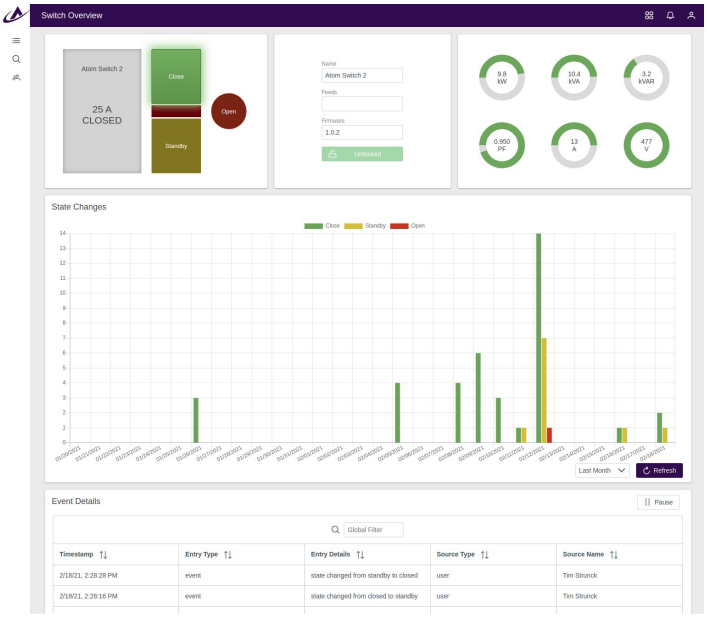
Optional Software

Atom Insight™

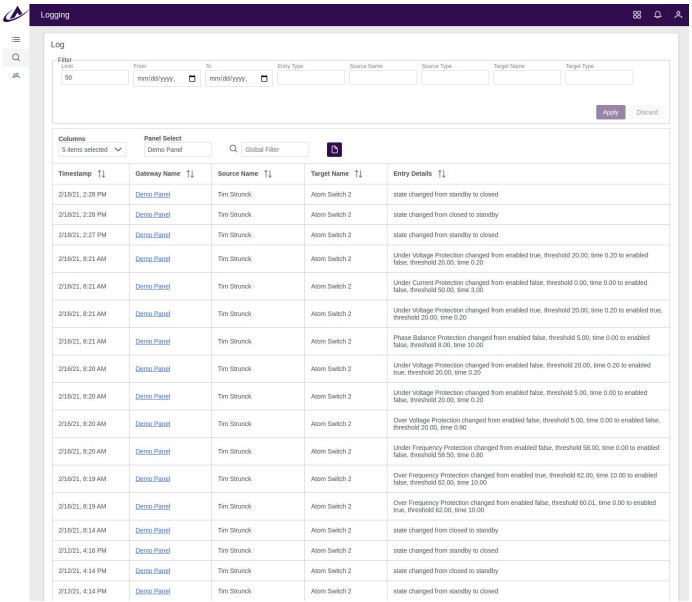
Atom Insight is an on-premise controls and diagnostics software that runs within the Atom Gateway, internal to the Atom RPP. View power flow, diagnostics, and control your breakers all from a single platform.



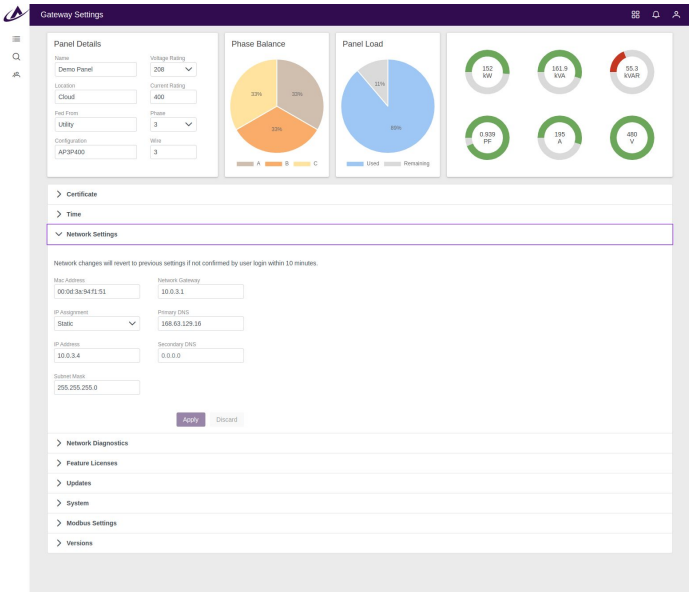
Atom Panel View



Atom Switch View



Operations & Diagnostics Log



System Configuration

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