

AT10.1 Series Float Battery Chargers

Advanced technology
microprocessor control

BATTERY CHARGER RANGE SUMMARY

Constant potential
DC power supplies for:

- Floating and charging stationary batteries
- Power for utility, UPS and communications or industrial type loads



AT10.1 Float Battery Charger

What is the AT10.1?

Combining the performance and accuracy of a microprocessor with the reliability of SCR power conversion technology makes the AT10.1 Series the standard in stationary battery chargers. AT10.1 chargers are easy to install, operate and maintain. The AT10.1 is packed with the most standard features and best warranty in the industry.

What are the most common applications for the AT10.1?

Utility & Communications

Power Generation
Substations
Microwave Relay Sites
Switchgear

Manufacturing

Emergency DC Power
DC Operated Breakers
Alarm Systems

Commercial

Alarm Systems
Uninterrupted Power
Systems
DC Control Systems

Transportation

Signal Systems
Switchgear
Alarm Systems

Specifications

AC Input

- **Group 1 (6-25 Adc) Voltage:**
120/208/240Vac Multi-tap 60Hz
480Vac 60Hz
220Vac, 380/416Vac 50/60Hz
550-600Vac 50/60Hz
- **Group 2 (30-100 Adc) Voltage:**
120, 208, 240 or 480Vac 60Hz
220Vac, 380 or 416Vac 50/60Hz
550-600Vac 50/60Hz
- **Input Voltage Tolerance:**
+10%, -12%
- **Input Frequency Tolerance:**
±5%
- **Efficiency:**
85-90% typical for 130Vdc at 50-100% load

DC Output

- **Voltage Ratings:**
12, 24, 48, or 130Vdc nominal
- **Current Ratings:**
GROUP I: 6, 12, 16, 20, 25Adc
GROUP II: 30, 40, 50, 75, 100Adc
- **Continuous Rating:**
110% rated current at maximum
equalize voltage at 122°F (50°C)
- **Current Limit Adjustment Range:**
50% to 110% rated output
- **Voltage Regulation:**
±0.25% for line, load and temperature
variations
**Regulation at maximum equalize voltages
may not meet ±0.25%*

- **Electrical Noise:**
32dBrc
- **Ripple:**
12/24/48Vdc
· Unfiltered on battery 1% Vrms
· Filtered on battery 30mVrms
· Filtered off battery 1% Vrms
· Battery Eliminator 30mVrms
130Vdc
· Unfiltered on battery 2% Vrms
· Filtered on battery 100mVrms
· Filtered off battery 2% Vrms
· Battery Eliminator 100mVrms
- **Surge Withstand Capability:**
Meets IEEE-472, ANSI C37.90a

Environmental

- Operating Ambient Temperature 0°F (-18°C) to 122°F (50°C) without derating
- Operating Altitude 3300 ft (1000 meters) above sea level without derating
- Relative Humidity 0% to 95% (without condensation)
- Audible Noise Less than 65 dBA at any point 5ft (1.5m) from any vertical surface of enclosure
- Made in the United States of America

Third party agency approvals:



CSA C22.2 · NRTL/C · UL 1012/UL 1564 compliant
Seismic qualified
ABS or CE certification available upon request.

Standard Features

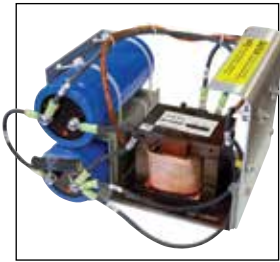
- 5 year product warranty
- Universal main control board operates in any AT Series charger
- Alarm assembly with local LEDs and summary relay contact for AC Failure, DC Failure, High Vdc, Low Vdc, Positive(+) and Negative(-) ground fault
- High DC voltage shutdown
- Forced load share during parallel operation
- Float/equalize selector switch with indicating lights
- Manual equalize timer (0-255 hr.) with indicating lights
- AC line failure automatic equalize timer (0-255 hr.) with indicating light
- AC On indicating light
- 1% Digital LED meter for Vdc, Adc, timer hours and alarm settings
- AC input and DC output circuit breakers
- Membrane front panel
- Front panel controls can be disabled for security
- A redundant analog circuit for LVDC alarm, independent of the microprocessor
- Redundant control loops for higher reliability
- Local or remote voltage sense with redundancy to protect against remote sense failure
- Self-diagnostics
- Input & output MOV surge suppressors
- Reverse polarity protection via free wheeling diodes
- CU-AL I/O compression lugs
- Switchboard wire, UL VW-1
- Enclosure pre-treated using a 5-stage iron phosphate process with baked epoxy powder coating in ANSI 61 gray

Summary of Options

- DC output filtering: per NEMA PE5 1996, standard and battery eliminator
- Medium and High Amp Interrupting Capacity Breakers
- Auxiliary alarm relay board
- Copper ground bus
- AC lightning arrestor
- Fungus proofing (tropicalization)
- Static proofing
- Communications module: DNP3 Level 2 or MODBUS protocols
- Battery temperature compensation
- Fan control contactor
- Custom Paint
- NEMA 4/12 type enclosure with fan
- Rack mounting
- Wall mounting
- Floor mounting stand
- NEMA Type 2 Drip Shield
- Barrier type alarm terminal block
- Forced load share cable
- End of discharge alarm
- Battery discharge alarm
- Zero-center ground detection meter
- Analog AC voltmeter
- Analog AC ammeter
- Cabinet heater assembly
- CE marking upon request
- ABS certification upon request
- Custom drawing package with optional CAD and PDF files
- AT-DC distribution panel

Filtering

Standard



Output filtering is essential whenever there is need for low AC ripple and low noise on the DC bus for critical loads. The standard DC output filtering limits ripple to no more than 30mV RMS on 12, 24 and 48Vdc units, and 100mV RMS on 130Vdc units, measured at the battery terminals. This feature meets the specifications of NEMA standard PE5-1996, and is recommended for installations using VRLA or gelled electrolyte batteries.

Battery Eliminator

An additional "battery eliminator" feature is also available, meeting the specifications of NEMA standard PE5-1996 with no battery connected, measured at the DC output terminals. This feature is recommended for sites where the battery may occasionally be disconnected from the DC bus for maintenance. Additional filtering is essential to limit AC ripple and noise for critical DC loads.

Ordering

Factory Installation YES	Factory Installation use Specification Tables on pages 9 & 10
Available for field installation YES	Field Installation use Part Number Group I: EJ1072-9# Group II: EJ5023-9# Contact manufacturer for specific part number.

Medium and High AIC Breaker



This feature provides thermal-magnetic circuit breakers with higher ratings than the standard. See the tables on pages 9 and 10 for Group I and Group II medium and high AIC breaker ratings. For AT10.1 Group 1, AC and DC breakers ratings must be ordered together, and are supplied in a separate penthouse enclosure. For Group 2, AC and DC breakers can be specified separately and are supplied in the standard cabinet.

Ordering

Factory Installation YES	Factory Installation use Specification Tables on pages 9 & 10
Available for field installation NO	Not available for field installation.

Auxiliary Alarm Relay Board



The AT10.1 features several industry-standard alarms, with individual LED indicators on the front instrument panel, and are accessible to the user via one (1) Summary Alarm contact on the Main Control PC Board. This feature provides a separate user-accessed PC board, featuring discreet two (2) form-C relay contacts for all six (6) alarms. In AT10.1 Group I ratings, the board is supplied in an additional penthouse enclosure. In AT10.1 Group II ratings, it is supplied within the standard enclosure.

Ordering

Factory Installation YES	Factory Installation use Specification Tables on pages 9 & 10
Available for field installation YES	Field Installation use Part Number Group I: EI0213-0# Contact manufacturer for specific part number EI0213-02

Summary of Options



Copper Ground Bus

This option provides a convenient means to tie the AT10.1 to the site building ground. A copper ground bus bar is provided at the I/O terminal, with an extra CU-AL compression box lug.

Ordering	
Factory Installation YES	Factory Installation use Specification Tables on pages 9 & 10
Available for field installation YES	Field Installation use Part Number Group I: E10195-00 Group II: E10195-02



AC Lightning Arrester

This options feature an industrial-grade surge arrester in polycarbonate housing, rated for 20,000 A. It is recommended for installations with risk of frequent AC surges, such as high elevations or severe weather.

Ordering	
Factory Installation YES	Factory Installation use Specification Tables on pages 9 & 10
Available for field installation YES	Field Installation use Part Number Group I: EJ1074-00 Group II: EJ1074-01



Fungus Proofing

This treatment is also referred to as "tropicalization". It coats electrical components and internal wiring connections with a fungus-resistant, non-conductive film (approximately 1 mil thickness).

User termination points, relay contacts and any electrical connectors where the spray would interfere with functionality are not coated. The application is fully cured at time of shipment.

Ordering	
Factory Installation YES	Factory Installation use Specification Tables on pages 9 & 10
Available for field installation NO	Not available for field installation.



Static Proofing

Used in "arid" environments, this treatment coats electrical components and connections with a static-resistant, non-conductive film (approximately 1 mil thickness).

User termination points, relay contacts and any electrical connectors where the spray would interfere with functionality are not coated. The application is fully cured at time of shipment.

Ordering	
Factory Installation YES	Factory Installation use Specification Tables on pages 9 & 10
Available for field installation NO	Not available for field installation.



Communications

This option allows full remote monitoring of the AT10.1 and control of the front panel features, using MODBUS or DNP3 Level 2 protocols. Standard serial connections are provided for use with local SCADA systems.

Additional Ethernet and Fiber Optics Modem interfaces are also available for use with the AT Communications option. Contact EnerSys for part number.

Ordering	
Factory Installation YES	Factory Installation use Part Numbering when ordering: 12Vdc: EJ5037-01 24Vdc: EJ5037-02 48Vdc: EJ5037-03 130Vdc: EJ5037-04
Available for field installation YES	Field Installation use Part Number: 12Vdc: EJ5037-11 24Vdc: EJ5037-12 48Vdc: EJ5037-13 130Vdc: EJ5037-14

Summary of Options



Temperature Compensation

Supplied in a kit, this option adjusts the AT10.1 DC output voltage up or down, in response to battery temperature fluctuations. Temperature is measured by an epoxy-enclosed thermistor. This probe is mounted on or near the battery, and connected by a cable to the Main Control PC Board. It is compatible with both lead-acid and nickel-cadmium batteries, and recommended for VRLA batteries. Cable lengths of 25, 50, 100 and 200ft. are available.

Ordering	
Factory Installation NO	Can be ordered with charger but must be field installed.
Available for field installation YES	Field Installation use Part Number 25ft: EJ5033-00 50ft: EJ5033-01 100ft: EJ5033-02 200ft: EJ5033-03



Barrier Type Alarm Terminal Block

This option features a separate molded phenolic terminal block, wired directly to the Auxiliary Alarm Relay PC Board. It allows the user to connect remote alarm wiring with ring or fork type lugs. The terminals are rated for 20A at 150 Vac/Vdc and accept wire sizes #16 to #14 AWG.

Ordering	
Factory Installation YES	Factory Installation use Part Number when ordering 1 FORM C: EJ5130-01 2 FORM C: EJ5130-02
Available for field installation YES	Field Installation use Part Number 1 Form C: EJ5130-01 2 Form C: EJ5130-02



Mechanical Lock for Front Door

The AT10.1 front panel controls can be disabled by setting a jumper on the back of the Main Control PC Board. For installations where extra security is required, the front instrument panel, or door, can be physically locked closed. This option provides a locking provision on the enclosure, a padlock and two (2) keys. A fully installed door key lock is also available.

Ordering	
Factory Installation YES	Factory Installation use Part Number when ordering Padlock 586/594: EI0215-00 Padlock 5017/5018: EI0215-01 Keylock 586/594: EI0215-10 Keylock 5017/5018: EI0215-11
Available for field installation YES	



Fan Control Contractor

Lead-acid batteries produce hydrogen gas. This small wall-mounted external accessory provides a relay contactor to activate a battery installation vent or exhaust fan. Available in 10A or 20A models, the accessory is factory-set to provide relay closure when the AT10.1 enters into Equalize mode.

Ordering	
Factory Installation NO	Can be ordered with charger but must be field installed
Available for field installation YES	Field Installation use Part Number 10 Amp Rating: EJ507-0# 20 Amp Rating: EJ507-1# Contact manufacturer for specific part number



Custom Paint

AT10.1 NEMA Type 1 enclosures feature an ANSI 61 gray epoxy powdercoat finish. Custom exterior and interior (e.g. semigloss white) colors are available in ANSI, PMS, and RAL color codes to meet specific requirements.

Ordering	
Factory Installation YES	EI5064-00 Specify when placing order using your specific paint requirements
Available for field installation NO	Not available for field installation.

Summary of Options



NEMA Type 4 Cabinet

With this accessory, a fully assembled standard AT10.1 NEMA-1 vented enclosure is installed within another gasketed, sealed cabinet. The combined assembly meets the NEMA Type 4 (and therefore Type 12 and 13) enclosure specification. All ratings feature forced cooling, with user-supplied 120Vac for the fan.

Ordering

Factory Installation YES	Factory Installation use Part Number when ordering STYLE 586: EI0214-00 STYLE 594: EI0214-00 STYLE 5017: EI5036-00 STYLE 5018: EI5037-00
Available for field installation NO	Not available for field installation.



Rack Mounting Brackets

These accessories are provided when the AT10.1 enclosure is to be installed into a standard EIA relay rack. Smaller AT10.1 models may be installed into 19in racks, and all AT10.1s may be installed into 23 in. or 24 in. relay racks. All hardware is included for assembling the brackets to the AT10.1. Relay rack mounting hardware is user-supplied.

Ordering

Factory Installation YES	Factory & Field Installation use Part Number when ordering Style 586 (19/23/34in): EI093-00 Style 594 (23/24in): EI093-00 Style 5017 (19in): EI093-01 Style 5017 (23/24in): EI093-02 Style 5018 (23/24in): EI093-03
Available for field installation YES	



Floor Stand

This accessory is provided with smaller wall-mounted AT10.1 chargers when a vertical surface is not desired. The assembly mounts the AT10.1 approximately 44 in. / 1.12 m from the floor. The kit features mounting brackets, assembly hardware to secure the AT10.1 to the brackets, and user instructions with a drilling pattern. Floor mounting anchor bolts are user-supplied.

Ordering

Factory Installation YES	Factory Installation use Part Number when ordering EI0192-00
Available for field installation YES	Field Installation use Part Number EI0192-00



NEMA Type 2 Drip Shield

Standard AT10.1 battery chargers are supplied in NEMA Type 1 vented enclosures. The optional drip shield prevents overhead water and small falling particles from entering the top vented panels, protecting internal equipment from damage. NEMA Type 2 specification.

Ordering

Factory Installation YES	Factory & Field Installation use Part Number when ordering Style 586: EI0191-00 Style 594: EI0191-00 Style 5017: EI0191-01 Style 5018: EI0191-02
Available for field installation YES	



SUPPLEMENTAL PRODUCT

AT-DC Distribution Panel

This product augments AT10.1 with a customized DC distribution panel for user-specified loads. The AT-DC is configurable to various combinations of main and branch breakers. The AT-DC panel is optimally supplied from the factory, mounted to the AT10.1 and pre-wired to the charger's DC output terminals. For additional product details, including applicable third party agency approvals, refer to the AT-DC literature (JF5032-00).

Ordering

Factory Installation YES	Factory & Field Installation use Part Number when ordering EJ5110-## Refer to document (JF5032-00) for model specific part number
Available for field installation YES	

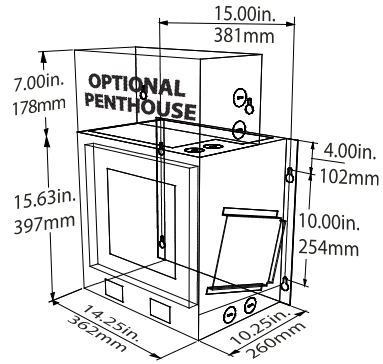
AT10.1 Specification Chart

DC Output Rating		AC Input Ampere Rating Based on maximum rms value of the input current delivered to the charger under all operating conditions within manufacturer's specifications									Battery Charger AC Circuit Breaker Ampere Rating (standard AIC breakers)							DC Circuit Breaker Rating	Cabinet Style	Approx. Shipping Weights lbs.(kg)	Heat Loss Watts (BTU/hr)		
		Volts	Amps	120 Vac	208 Vac	220 Vac	240 Vac	380 Vac	416 Vac	480 Vac	600 Vac	120 Vac	208 Vac	220 Vac	240 Vac	380 Vac	416 Vac					480 Vac	600 Vac
Float Adjust 11.0-14.5Vdc Equalize Adjust 11.7-15.5Vdc	12Vdc GROUP I	6	3	2	2	1	1	1	1	1	10	10	10	10	2	2	2	15	10	586	83 (38)	31 (105)	
		12	3	2	2	2	2	2	2	1	1	10	10	10	10	4	4	2	15	20	586	87 (40)	58 (199)
		16	4	2	3	2	2	2	2	1	1	10	10	10	10	4	4	2	15	25	586	92 (42)	77 (262)
		20	6	3	3	3	2	2	2	2	2	10	10	10	10	4	4	3	15	30	586	118 (54)	95 (326)
		25	7	4	4	4	3	2	2	2	2	10	10	10	10	5	5	4	15	40	586	100 (46)	119 (404)
Extended Equalize to 16Vdc*	12Vdc GROUP II	30	9	6	5	5	3	3	3	2	15	10	10	10	5	5	5	15	50	5017	184 (84)	142 (483)	
		40	11	7	6	6	4	3	3	3	20	10	10	10	5	5	5	15	60	5017	189 (86)	188 (641)	
		50	14	8	8	7	5	4	4	3	20	15	15	15	10	10	5	15	80	5017	194 (88)	234 (798)	
		75	21	13	12	11	7	6	6	5	35	20	20	20	10	10	10	15	100	5018	199 (91)	350 (1192)	
		100	28	16	15	13	10	8	8	8	40	25	20	25	15	15	15	15	150	5018	225 (103)	465 (1587)	
Float Adjust 22.0-29.5Vdc Equalize Adjust 23.4-31.0Vdc	24Vdc GROUP I	6	5	3	3	3	2	1	1	1	10	10	10	10	3	3	3	15	10	586	99 (45)	40 (136)	
		12	8	5	4	4	3	2	2	1	10	10	10	10	4	4	3	15	20	586	109 (50)	75 (255)	
		16	9	6	5	5	4	3	3	2	15	15	15	15	6	6	4	15	25	586	115 (53)	98 (334)	
		20	11	7	6	6	5	4	4	3	15	15	15	15	8	8	6	15	30	586	119 (54)	121 (413)	
		25	14	9	8	7	6	4	4	4	20	20	20	20	8	8	6	15	40	586	136 (62)	150 (512)	
Extended Equalize to 32Vdc*	24Vdc GROUP II	30	16	8	8	8	5	5	4	4	20	10	10	10	10	10	5	15	50	5017	259 (118)	179 (612)	
		40	20	12	12	11	8	7	6	5	25	15	15	15	10	10	10	15	60	5017	267 (122)	237 (810)	
		50	26	15	15	14	8	8	7	6	35	20	20	20	10	10	10	15	80	5017	342 (156)	295 (1008)	
		75	42	26	23	22	14	13	11	10	70	35	30	35	20	20	15	15	100	5018	355 (162)	441 (1503)	
		100	51	25	24	22	14	12	11	11	80	35	30	35	25	25	20	15	150	5018	360 (164)	586 (1999)	
Float Adjust 44.0-58.0Vdc Equalize Adjust 46.8-59.0Vdc	48Vdc GROUP I	6	9	5	5	5	4	3	3	2	15	15	15	15	6	6	4	15	10	586	105 (48)	60 (203)	
		12	15	9	9	8	5	4	4	3	20	20	20	20	8	8	6	15	20	586	120 (55)	107 (365)	
		16	18	12	11	10	7	5	5	4	25	25	25	25	10	10	8	15	25	594	155 (71)	139 (473)	
		20	23	13	13	12	9	6	6	5	30	30	30	30	13	13	8	15	30	594	170 (78)	170 (581)	
		25	29	17	17	16	12	8	8	7	40	40	40	40	15	15	10	15	40	594	180 (82)	210 (717)	
Extended Equalize to 61Vdc*	48Vdc GROUP II	30	28	16	16	15	8	8	7	6	35	20	20	20	15	15	15	15	50	5017	217 (99)	250 (852)	
		40	38	22	19	19	12	11	9	8	50	30	25	30	15	15	15	15	60	5017	225 (103)	329 (1122)	
		50	52	28	28	26	16	15	12	11	70	35	35	35	20	20	15	15	80	5017	250 (114)	408 (1392)	
		75	79	48	43	39	25	22	19	17	100	60	60	60	35	35	25	25	100	5018	433 (197)	606 (2068)	
		100	88	50	48	44	28	25	22	19	125	70	60	70	40	40	35	25	150	5018	450 (205)	804 (2743)	
Float Adjust 110.0-140.0Vdc Equalize Adjust 117.0-143.0Vdc	130Vdc GROUP I	6	15	9	8	8	5	5	4	4	20	20	20	20	8	8	8	15	10	586	130 (59)	99 (337)	
		12	32	18	16	15	10	9	8	7	40	40	40	40	13	13	13	15	20	594	155 (71)	167 (571)	
		16	34	20	18	17	11	10	9	8	50	50	50	50	13	13	13	15	25	594	215 (98)	213 (727)	
		20	40	24	23	23	15	14	12	11	60	60	60	60	20	20	20	15	30	594	225 (103)	259 (883)	
		25	50	30	28	27	18	16	14	12	70	70	70	70	25	25	20	15	40	594	265 (120)	316 (1078)	
Extended Equalize to 149Vdc*	130Vdc GROUP II	30	75	44	42	40	23	22	20	16	100	60	60	60	35	35	25	20	50	5017	285 (130)	373 (1273)	
		40	100	59	57	53	35	32	28	17	125	80	80	80	60	60	35	30	60	5018	340 (155)	484 (1664)	
		50	N/A	72	68	63	40	36	32	28	N/A	100	100	100	50	50	40	35	80	5018	375 (171)	602 (2054)	
		75	N/A	100	83	81	52	47	40	36	N/A	125	125	125	70	70	50	50	100	5018	482 (219)	888 (3030)	

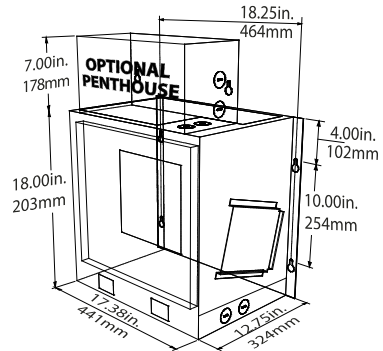
*Regulation at max. equalize voltages may not meet ±0.25%

Group 1 6-25Adc

Cabinet Style 586

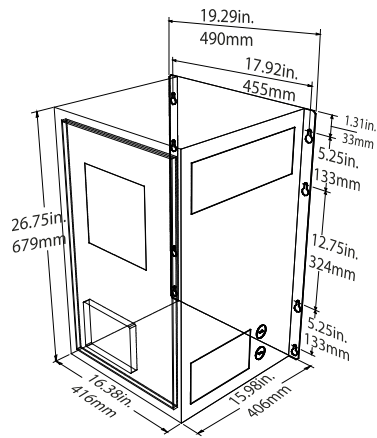


Cabinet Style 594

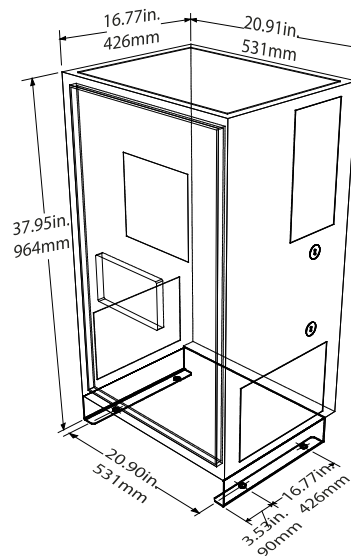


Group 2 30-100Adc

Cabinet Style 5017

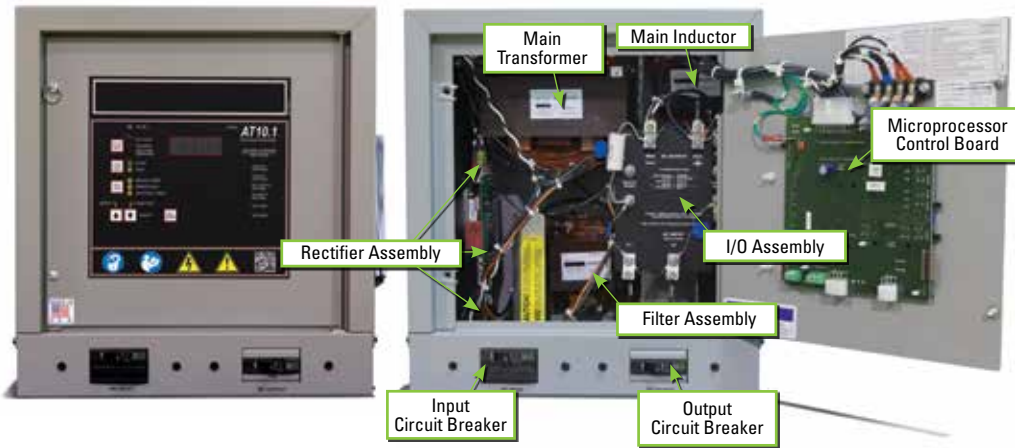


Cabinet Style 5018



NOTE:
Dimensions shown are for
reference only; for installation
and mounting please refer to
user manual.

Group 1 6-25A dc



Circuit Breaker AC & DC Ratings

Standard

Input: 10kAIC - 240Vac
10kAIC - 480Vac
Output: 10kAIC - 125Vdc*

Medium

Input: 25kAIC - 240Vac
18kAIC - 480Vac
18kAIC - 600Vac
Output: 10kAIC - 250Vdc

High

Input: 65kAIC - 240Vac
25kAIC - 480Vac
18kAIC - 600Vac
Output: 20kAIC - 250Vdc

*For chargers 16A dc and larger; consult factory for other ratings.

SAMPLE

GROUP I (6-25 A dc) - Specification Table

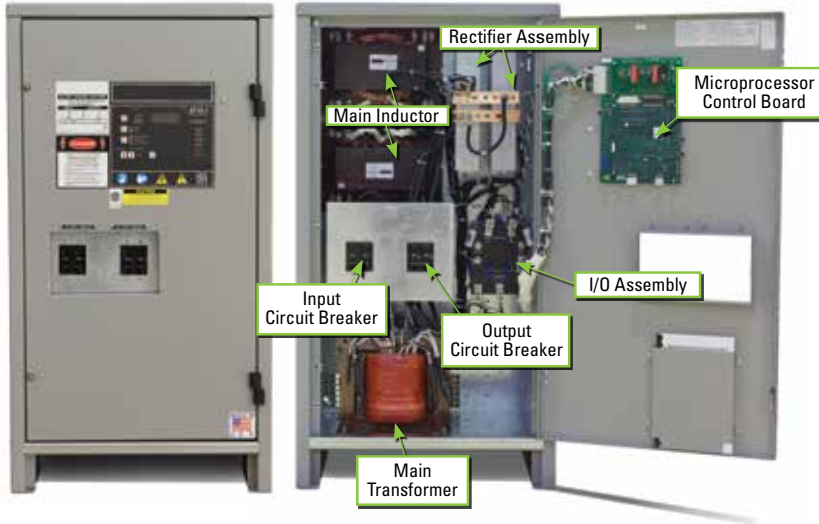
A	B			C			D	E			F	G			H	J	K	L
AT10	0	1	2	0	0	6	E	2	4	0	S	A	U	X	G	L	X	X

YOUR CODE

AT10																		
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Description		Code	Features	Description		Code	Feature
A		AT10	AT10 Series	F	Circuit Breaker Rating	S	Standard AIC
B	Nominal DC Output Voltage	012	12Vdc			M	Medium AIC
		024	24Vdc			H	High AIC
		048	48Vdc	G	AUX	Installed	
		130	130Vdc		XXX	Not Supplied	
C	Nominal DC Output Current	006	6A dc	H	Copper Ground Bus	G	Installed
		012	12A dc		X	Not Supplied	
		016	16A dc	J	AC Lightning Arrestor	L	Installed
		020	20A dc		X	Not Supplied	
		025	25A dc	K	Fungus Proofing	F	Applied
D	DC Output Filtering	U	Unfiltered		X	Not Supplied	
		F	Filtered	L	Static Proofing	S	Applied
		E	Batt. Eliminator		X	Not Supplied	
E	AC Input Voltage	120	120V 60Hz	This ordering code is unique for AT10.1 chargers rated 6-25A output.			
		208	208V 60Hz				
		240	240V 60Hz				
		480	480V 60Hz				
		220	220V 50/60Hz				
		380	380V 50/60Hz				
		416	416V 50/60Hz				
		600	550-600V 50/60Hz				

Group 2 30-100A dc



Circuit Breaker AC & DC Ratings

Standard

Input: 5kAIC - 120/208/240/480Vac
Output: 5kAIC - 125Vdc

Medium

Input: 25kAIC - 120/208/240/480Vac
18kAIC - 600Vac
Output: 10kAIC - 250Vdc

High

Input: 65kAIC - 120/208/240/480Vac
25kAIC - 600Vac
Output: 20kAIC - 250Vdc

GROUP II (30-100 A dc) - Specification Table

SAMPLE

A	B			C			D	E			F	G	H	J	K	L	M	N	P
AT10	1	3	0	0	5	0	F	4	8	0	S	F	S	X	A	X	X	X	X

YOUR CODE

AT10																			
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Description		Code	Feature	Description		Code	Feature
A		AT10	AT10 Series			S	Standard AIC
B	Nominal DC Output Voltage	012	12Vdc	F	AC Input Circuit Breaker Rating	M	Medium AIC
		024	24Vdc			H	High AIC
		048	48Vdc			0	No Breaker
		130	130Vdc				
C	Nominal DC Output Current	030	30A dc	G	AC Input Fuses	F	Installed
		040	40A dc			X	Not Supplied
		H	DC Output Circuit Breaker Rating	050	50A dc	S	Standard AIC
				075	75A dc	M	Medium AIC
				100	100A dc	H	High AIC
		0	No Breaker				
D	DC Output Filtering	U	Unfiltered	J	DC Output Fuses	F	Installed
		F	Filtered			X	Not Supplied
		E	Batt. Eliminator				
E	AC Input Voltage* *Group 2 inputs cannot be retapped in field	120	120V 60Hz	K	Auxiliary Alarm Relay Board	A	Installed
		208	208V 60Hz			X	Not Supplied
		L	Copper Ground Bus	240	240V 60Hz	G	Installed
				480	480V 60Hz	X	Not Supplied
		M	AC Lightning Arrestor	220	220V 50/60Hz	L	Installed
				380	380V 50/60Hz	X	Not Supplied
		N	Fungus Proofing	416	416V 50/60Hz	F	Applied
				600	550-600V 50/60Hz	X	Not Supplied
P	Static Proofing			S	Applied		
				X	Not Supplied		

This ordering code is unique for AT10.1 chargers rated 30-100A output.



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