Looking for the world's premium microprocessor controlled float battery charger?

The AT30 is the world's easiest to operate float battery charger. It has over 10 years of proven reliability and has become the industry's "gold standard" for all stationary battery charging applications. We are so confident in our product that we have backed the AT30 with our unrivaled 5 Year Standard Warranty.
What is the AT30?

Combining the performance and accuracy of a microprocessor with the reliability of SCR power conversion technology makes the AT Series the standard in stationary battery chargers. AT30s are easy to install, operate and maintain. The AT30 is packed with the most standard features and best warranty in the industry.

What are the most common applications for the AT30?

**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 & STANDARD FEATURES

SPECIFICATIONS

AC Input
- **Voltage:**
  - 208 Vac 60Hz
  - 240 Vac 60Hz
  - 480 Vac 60Hz
  - 550-600 Vac 60Hz
  - 220 Vac 50/60Hz
  - 380 Vac 50/60Hz
  - 416 Vac 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 (Adc):**
  - 25, 30, 40, 50, 75, 100,125, 150, 200,
  - 250, 300, 400, 500, 600, 800, 1000
- **Continuous Rating:**
  110% rated current at maximum equalize voltage at 50°C
- **Current Limit Adjustment Range:**
  50% to 110% rated output
- **Voltage Regulation:**
  ±0.25% for line, load and temp. variations
  *Regulation at max. equalize voltages may not meet ±0.25%
- **Electrical Noise:**
  32dBmrc
- **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

Safety and Acceptance
- **Meets NEMA PE 5-1996, PE 5-1997(R2003) specification**
- **NEMA-1/IP20 type standard enclosure**
- **Third party agency approvals:**
  - CSA C22.2 compliant (up to and including 400A)
  - NRTL/C · UL 1012/UL 1564 compliant
  - Seismic qualified (5018/5030 cabinet styles only)
  - ABS or CE certification available upon request.
- **Made in the United States of America**

Environmental
- **Operating Ambient Temperature:**
  0°F to 122°F (-18°C to 50°C) w/o derating
- **Operating Altitude:**
  10,000 feet (3,000 meters) above sea level w/o 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

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**
- **6 pulse rectification**
- **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**

Specifications subject to change.
CUSTOMIZE YOUR AT30
OPTIONS THAT LET YOU DESIGN YOUR CHARGER EXACTLY HOW YOU NEED IT!

SUMMARY OF OPTIONS

- DC output filtering: per NEMA PES 1996, standard and battery eliminator
- Medium & High AIC Breakers
- AC Input/DC output fuses
- Auxiliary alarm relay board
- Copper ground bus
- AC lightning arrestor
- Fungus proofing (tropicalization)
- Static proofing
- Forced load share cable
- Communications module: DNP3 Level 2 or MODBUS protocols
- Battery temp. compensation
- Custom Paint
- NEMA 4 (12) type enclosure w/fan
- NEMA Type 2 Drip Shield
- Barrier type alarm terminal block
- 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
- Fan control contactor
- Custom drawing package (DWG/PDF)
- Mechanical lock for front door

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 & 48Vdc units, and 100mV RMS on 130Vdc units, measured at the battery terminals. This feature meets the specifications of NEMA standard PES-1996, and is recommended for installations using VRLA or gel electrolyte batteries.

BATTERY ELIMINATOR
An additional “battery eliminator” feature is also available, meeting the specifications of NEMA standard PES-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 use Specification Table on page 11
Contact factory with serial number of original unit and type of filtering upgrade.

Medium & High AIC Breaker
This feature provides thermal-magnetic circuit breakers with higher Ampere Interrupting Capacity ratings than the standard. See the tables on Page 11 for medium and high AIC breaker ratings.

ORDERING

Factory Installation use Specification Table on page 11
Contact factory with serial number of original unit and type of breaker upgrade for proper field kit parts.

AC Input and/or DC Output Fuses
Default protection devices for the AT30 are molded case circuit breakers. Fuses may also be ordered to augment them, wired in series with the breakers. Three (3) ac input fuses provide 200 kAIC protection. Two (2) dc output fuses provide 20 kAIC protection. Fuses may also be ordered in conjunction with standard breakers as a cost-saver. If an AT30 is ordered without breakers, fuses must be ordered.

ORDERING

Factory Installation use Specification Table on page 11
Contact factory with serial number of original unit and type of fuses (ac and/or dc) for proper field kit parts.
### AUXILIARY ALARM RELAY BOARD

**Specifications:**
- The AT30 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.

**Factory Installation:**
- YES

**Available for Field Installation:**
- YES

**Ordering:**
- Factory Installation use Specification Table on page 11

**Part Number:**
- Style 5018: EI0213-02
- Style 5030: EI0213-03
- Style 163: EI0213-04
- Style 198: EI0213-05

---

### COPPER GROUND BUS

**Specifications:**
- This option provides a convenient means to tie the AT30 to the site building ground. A copper ground bus bar is provided with an extra CU-AL compression box lug.

**Factory Installation:**
- YES

**Available for Field Installation:**
- YES

**Ordering:**
- Factory Installation use Specification Table on page 11

**Part Number:**
- Field Installation use Part Number
  - Style 5018: EI0195-02
  - Style 5030: EI0195-03
  - Style 163: EI0195-04
  - Style 198: EI0195-05

---

### AC LIGHTNING ARRESTER

**Specifications:**
- This option features an industrial-grade surge arrester in polycarbonate housing, rated for 20,000 Amperes. It is recommended for installations with risk of frequent ac surges, such as high elevations or severe weather.

**Factory Installation:**
- YES

**Available for Field Installation:**
- YES

**Ordering:**
- Factory Installation use Specification Table on page 11

**Part Number:**
- Field Installation use Part Number EJ1074-02

---

### FUNGUS PROOFING

**Specifications:**
- This treatment is also referred to as "tropicalization". It coats electrical components and internal wiring connections with a fungus-resistant, non-conductive film (approx. 1 mil thickness). User termination points are not coated, nor are relay contacts, and any electrical connectors where the spray would interfere with functionality. The application is fully cured at time of shipment.

**Factory Installation:**
- YES

**Available for Field Installation:**
- NO

**Ordering:**
- Factory Installation use Specification Tables on pages 10 & 11

---

### STATIC PROOFING

**Specifications:**
- Used in "arid" environments, this treatment coats electrical components and connections with a static-resistant, non-conductive film (approx. 1 mil thickness). User termination points are not coated, nor are relay contacts, and any electrical connectors where the spray would interfere with functionality. The application is fully cured at time of shipment.

**Factory Installation:**
- YES

**Available for Field Installation:**
- NO

**Ordering:**
- Factory Installation use Specification Tables on pages 10 & 11

---
CUSTOMIZE YOUR AT30
OPTIONS THAT LET YOU DESIGN YOUR CHARGER EXACTLY HOW YOU NEED IT!

Communications
This option allows full remote monitoring of the AT30 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. Ethernet or Fiber Optic Modem interfaces are also available for use with the AT Communications option. Contact factory for part number.

Temperature Compensation
Supplied in a kit, this option adjusts the AT30 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 200 ft are available.

Barrier Type Alarm Terminal Blocks
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 spade type lugs. The #6-32 binder hear screw terminals are rated for 20A at 150 Vac/Vdc, and accept wire sizes #16 to #14 AWG.

Mechanical Lock For Front Door
The AT30 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.

Custom Paint
AT30 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.
**AT-DC Distribution Panel**

This product augments AT30 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 AT30 and pre-wired to the charger's dc output terminals. For further details, refer to the AT-DC product literature (JF5032-00).

**NEMA Type 2 Drip Shield**

Standard AT30 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. The combined standard enclosure and drip shield meets the NEMA Type 2 specification.

**NEMA Type 4 Cabinet**

With this accessory, a fully assembled standard AT30 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.

**Wall Mounting Brackets or Rack Mounting**

AT30 Chargers in Style-5018 enclosures can be wall or rack mounted. Wall-mounting brackets (E15080-00) are shipped as a field kit. Use of this option increases the vertical footprint of the charger by 14”. Anchor bolts are not supplied.

The Style-5018 enclosure is also EIA 23” or 24” rack mountable. Mounting brackets (E10193-03) are factory installed. Relay rack mounting hardware is not supplied.

**Fan Control Contactor**

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 AT30 enters into Equalize mode.

**Supplemental Product**

**ORDERING**

- **FACTORY INSTALLATION**
  - Wall - No
  - Rack - Yes

**AVAILABLE FOR FIELD INSTALLATION**

- Yes

**STYLE 5018:**

- **EI0191-00**
- **EI0191-02**
- **EI0191-03**
- **EI0191-05**

**ORDERING**

- **FACTORY INSTALLATION**

**NEMA Type 2 Drip Shield**

- **Available for Field Installation**
  - Yes

**ORDERING**

- **Factory & Field Installation use**
- **Part Number when ordering**
  - STYLE 5018: EI0191-02
  - STYLE 5030: EI0191-03
  - STYLE 163: EI0191-04
  - STYLE 190: EI0191-05

**ORDERING**

- **Factory Installation use**
- **Part Number when ordering**
  - STYLE 5018: EI0193-00
  - STYLE 5030: EI0193-00
  - STYLE 163: EI0193-00
  - STYLE 190: EI0193-00

**ORDERING**

- **Factory Installation use**
- **Part Number when ordering**
  - STYLE 5018: EJ5037-00
  - STYLE 5030: EJ5037-00
  - STYLE 163: EJ5037-00
  - STYLE 190: EJ5046-00

**ORDERING**

- **Field Installation use Part Number**
- **Factory & Field Installation use**
- **Part Number when ordering**
  - Style-5018 (23/24in): EI0193-03

**ORDERING**

- **Can be ordered with charger but must be field installed**

**ORDERING**

- **Factory & Field Installation use**
- **Part Number when ordering**
  - EJ5110-##

**ORDERING**

- **Refer to document (JF5032-00)**
- **for model specific part number.**
### AT30 SERIES
**SPECIFICATION CHART**

<table>
<thead>
<tr>
<th>DC Output Rating</th>
<th>AC Input Ampere Rating</th>
<th>Battery Charger AC Circuit Breaker Ampere Rating (standard AIC breakers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volts</td>
<td>208 Vac</td>
<td>220 Vac</td>
</tr>
<tr>
<td>12Vdc</td>
<td>50</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>75</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>125</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>150</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>200</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>250</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>300</td>
<td>28</td>
</tr>
</tbody>
</table>

#### Notes:
- **Equalize Adjust**
- **Float Adjust**
- **Adjust**

- **12Vdc**: Based on maximum rms value of the input current delivered to the charger under all operating conditions within manufacturer's specifications.
- **24Vdc**: Based on maximum rms value of the input current delivered to the charger under all operating conditions within manufacturer's specifications.
- **48Vdc**: Based on maximum rms value of the input current delivered to the charger under all operating conditions within manufacturer's specifications.
- **130Vdc**: Based on maximum rms value of the input current delivered to the charger under all operating conditions within manufacturer's specifications.
## HOW TO SIZE YOUR CHARGER

(simplified formula)

$$\left( \frac{Ah \times 1.R}{t} \right) + L = \text{Continuous Charger Output Rating}$$

- $Ah =$ Ampere hours removed
- $R =$ Recharge factor ($1 = Pb$ or $3 = NiCd$)
- $L =$ Additional standing load
- $t =$ Recharge time in hours

### DC Circuit Breaker Rating vs. Cabinet Styles

<table>
<thead>
<tr>
<th>DC Circuit Breaker Rating</th>
<th>Cabinet Style</th>
<th>Approx. Shipping Weights (lb/kg)</th>
<th>Heat Loss Watts (Btu/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>5018</td>
<td>260 (118)</td>
<td>229 (783)</td>
</tr>
<tr>
<td>100</td>
<td>5018</td>
<td>330 (150)</td>
<td>340 (1160)</td>
</tr>
<tr>
<td>150</td>
<td>5018</td>
<td>380 (173)</td>
<td>448 (1529)</td>
</tr>
<tr>
<td>175</td>
<td>5030</td>
<td>450 (205)</td>
<td>560 (1911)</td>
</tr>
<tr>
<td>200</td>
<td>5030</td>
<td>550 (250)</td>
<td>668 (2279)</td>
</tr>
<tr>
<td>250</td>
<td>5030</td>
<td>590 (268)</td>
<td>890 (3039)</td>
</tr>
<tr>
<td>350</td>
<td>5030</td>
<td>610 (277)</td>
<td>1113 (3799)</td>
</tr>
<tr>
<td>400</td>
<td>5030</td>
<td>650 (295)</td>
<td>1327 (4531)</td>
</tr>
<tr>
<td>80</td>
<td>5018</td>
<td>280 (127)</td>
<td>289 (987)</td>
</tr>
<tr>
<td>100</td>
<td>5018</td>
<td>340 (154)</td>
<td>427 (1457)</td>
</tr>
<tr>
<td>150</td>
<td>5018</td>
<td>390 (177)</td>
<td>560 (1911)</td>
</tr>
<tr>
<td>175</td>
<td>5030</td>
<td>540 (245)</td>
<td>700 (2309)</td>
</tr>
<tr>
<td>200</td>
<td>5030</td>
<td>580 (263)</td>
<td>833 (2843)</td>
</tr>
<tr>
<td>250</td>
<td>5030</td>
<td>610 (277)</td>
<td>1101 (3759)</td>
</tr>
<tr>
<td>350</td>
<td>5030</td>
<td>650 (295)</td>
<td>1376 (4699)</td>
</tr>
<tr>
<td>400</td>
<td>5030</td>
<td>690 (313)</td>
<td>1652 (5638)</td>
</tr>
<tr>
<td>600</td>
<td>163</td>
<td>1150 (522)</td>
<td>2202 (7518)</td>
</tr>
<tr>
<td>700</td>
<td>163</td>
<td>1300 (590)</td>
<td>2730 (9319)</td>
</tr>
<tr>
<td>800</td>
<td>163</td>
<td>1530 (694)</td>
<td>3275 (11183)</td>
</tr>
<tr>
<td>1200</td>
<td>198</td>
<td>2020 (916)</td>
<td>4367 (14910)</td>
</tr>
<tr>
<td>1200</td>
<td>198</td>
<td>2440 (1107)</td>
<td>5459 (18638)</td>
</tr>
<tr>
<td>80</td>
<td>5018</td>
<td>310 (141)</td>
<td>398 (1358)</td>
</tr>
<tr>
<td>100</td>
<td>5018</td>
<td>390 (177)</td>
<td>584 (1994)</td>
</tr>
<tr>
<td>150</td>
<td>5018</td>
<td>500 (227)</td>
<td>762 (2602)</td>
</tr>
<tr>
<td>175</td>
<td>5030</td>
<td>550 (250)</td>
<td>953 (3253)</td>
</tr>
<tr>
<td>200</td>
<td>5030</td>
<td>600 (272)</td>
<td>1131 (3860)</td>
</tr>
<tr>
<td>250</td>
<td>5030</td>
<td>660 (299)</td>
<td>1491 (5091)</td>
</tr>
<tr>
<td>350</td>
<td>5030</td>
<td>720 (327)</td>
<td>1864 (6363)</td>
</tr>
<tr>
<td>400</td>
<td>5030</td>
<td>760 (345)</td>
<td>2237 (7636)</td>
</tr>
<tr>
<td>600</td>
<td>163</td>
<td>1100 (499)</td>
<td>2949 (10068)</td>
</tr>
<tr>
<td>700</td>
<td>163</td>
<td>1350 (612)</td>
<td>3686 (12585)</td>
</tr>
<tr>
<td>800</td>
<td>198</td>
<td>1600 (726)</td>
<td>4424 (15102)</td>
</tr>
<tr>
<td>1200</td>
<td>198</td>
<td>2020 (916)</td>
<td>5898 (20137)</td>
</tr>
<tr>
<td>1200</td>
<td>198</td>
<td>2440 (1107)</td>
<td>7373 (25171)</td>
</tr>
<tr>
<td>40</td>
<td>5018</td>
<td>370 (168)</td>
<td>361 (1232)</td>
</tr>
<tr>
<td>50</td>
<td>5018</td>
<td>380 (172)</td>
<td>416 (1421)</td>
</tr>
<tr>
<td>60</td>
<td>5018</td>
<td>390 (177)</td>
<td>460 (1617)</td>
</tr>
<tr>
<td>80</td>
<td>5018</td>
<td>400 (182)</td>
<td>464 (1628)</td>
</tr>
<tr>
<td>100</td>
<td>5018</td>
<td>490 (222)</td>
<td>928 (3169)</td>
</tr>
<tr>
<td>150</td>
<td>5030</td>
<td>650 (295)</td>
<td>1201 (4099)</td>
</tr>
<tr>
<td>175</td>
<td>5030</td>
<td>740 (336)</td>
<td>1478 (5045)</td>
</tr>
<tr>
<td>200</td>
<td>5030</td>
<td>750 (340)</td>
<td>1773 (6054)</td>
</tr>
<tr>
<td>250</td>
<td>5030</td>
<td>820 (372)</td>
<td>2327 (7946)</td>
</tr>
<tr>
<td>350</td>
<td>163</td>
<td>1130 (513)</td>
<td>2909 (9932)</td>
</tr>
<tr>
<td>400</td>
<td>163</td>
<td>1330 (603)</td>
<td>3436 (11731)</td>
</tr>
<tr>
<td>600</td>
<td>163</td>
<td>1580 (717)</td>
<td>4582 (15641)</td>
</tr>
<tr>
<td>700</td>
<td>198</td>
<td>2150 (975)</td>
<td>5727 (16552)</td>
</tr>
<tr>
<td>800</td>
<td>198</td>
<td>2650 (1202)</td>
<td>6872 (23462)</td>
</tr>
<tr>
<td>1200</td>
<td>198</td>
<td>3250 (1474)</td>
<td>9163 (31283)</td>
</tr>
<tr>
<td>1200</td>
<td>198</td>
<td>4200 (1905)</td>
<td>11271 (38479)</td>
</tr>
</tbody>
</table>

## CABINET STYLES & DIMENSIONS

For detailed CAD drawings of all NEMA-1 type enclosures (and optional NEMA-4 (12) type enclosures), please visit the support section of our website www.hindlepowerinc.com
STANDARD INTERNAL LAYOUT BY CABINET STYLE

For detailed CAD drawings of all NEMA-1 type enclosures (and optional NEMA-4 (12) type enclosures), please visit the support section of our website hindlepowerinc.com.
# AT30 - SPECIFICATION TABLE

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CODE</th>
<th>FEATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td>AT30</td>
<td>AT30 SERIES</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>Nominal DC Output Voltage</td>
<td></td>
</tr>
<tr>
<td>012</td>
<td>12Vdc</td>
<td></td>
</tr>
<tr>
<td>024</td>
<td>24Vdc</td>
<td></td>
</tr>
<tr>
<td>048</td>
<td>48Vdc</td>
<td></td>
</tr>
<tr>
<td>130</td>
<td>130Vdc</td>
<td></td>
</tr>
<tr>
<td><strong>C</strong></td>
<td>Nominal DC Output Current</td>
<td></td>
</tr>
<tr>
<td>025</td>
<td>25Adc</td>
<td></td>
</tr>
<tr>
<td>030</td>
<td>30Adc</td>
<td></td>
</tr>
<tr>
<td>040</td>
<td>40Adc</td>
<td></td>
</tr>
<tr>
<td>050</td>
<td>50Adc</td>
<td></td>
</tr>
<tr>
<td>075</td>
<td>75Adc</td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>100Adc</td>
<td></td>
</tr>
<tr>
<td>125</td>
<td>125Adc</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>150Adc</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>200Adc</td>
<td></td>
</tr>
<tr>
<td>250</td>
<td>250Adc</td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>300Adc</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>400Adc</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>500Adc</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>600Adc</td>
<td></td>
</tr>
<tr>
<td>800</td>
<td>800Adc</td>
<td></td>
</tr>
<tr>
<td>1K0</td>
<td>1000Adc</td>
<td></td>
</tr>
<tr>
<td><strong>D</strong></td>
<td>DC Output Filtering</td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>Unfiltered</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Filtered</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Eliminator</td>
<td></td>
</tr>
<tr>
<td><strong>E</strong></td>
<td>AC Input Voltage* (3~)</td>
<td></td>
</tr>
<tr>
<td>208</td>
<td>208V 60Hz</td>
<td></td>
</tr>
<tr>
<td>240</td>
<td>240V 60Hz</td>
<td></td>
</tr>
<tr>
<td>480</td>
<td>480V 60Hz</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>550/600V 60Hz</td>
<td></td>
</tr>
<tr>
<td>220</td>
<td>220V 50/60Hz</td>
<td></td>
</tr>
<tr>
<td>380</td>
<td>380V 50/60Hz</td>
<td></td>
</tr>
<tr>
<td>416</td>
<td>416V 50/60Hz</td>
<td></td>
</tr>
</tbody>
</table>

**F** | AC Input Circuit Breaker Rating** |
| S | Standard AIC |
| M | Medium AIC |
| H | High AIC |
| 0 | No Breaker |

**G** | AC Input Fuses |
| F | Installed |
| X | Not Supplied |

**H** | DC Output Circuit Breaker Rating** |
| S | Standard AIC |
| M | Medium AIC |
| H | High AIC |
| 0 | No Breaker |

**J** | DC Output Fuses |
| F | Installed |
| X | Not Supplied |

**K** | Auxiliary Alarm Relay Board |
| A | Installed |
| X | Not Supplied |

**L** | Copper Ground Bus |
| G | Installed |
| X | Not Supplied |

**M** | AC Lightning Arrester |
| L | Installed |
| X | Not Supplied |

**N** | Fungus Proofing |
| F | Applied |
| X | Not Supplied |

**P** | Static Proofing |
| S | Applied |
| X | Not Supplied |

* Contact factory for other AC input voltages not listed  
** If you do not order an AC input or DC output circuit breaker, fuses will be provided.
Standard Warranty
(applies only to product(s) delivered within the United States and Canada)

All HindlePower charger products are warranted to be free from defects in material and workmanship for a period of five (5) years from date of manufacture. During the term of the warranty period: parts, assemblies, or components deemed to be defective will be repaired or replaced at our option, free of charge. All costs related to removal, reinstallation and transportation will be paid by the purchaser/customer and/or operator of the product. Evaluation, repair and/or replacement of any defective part(s) are FOB manufacturer’s factory.

This warranty does not cover products or parts that are damaged from improper use or abuse, as determined by HindlePower. Accessory items or additional items carry only their respective manufacturer’s warranty. Consumable items (such as fuses and electrolytic capacitors), which wear out under normal use are specifically not covered by this standard warranty. Any consequential damage due to diagnosis or repair by any party other than HindlePower authorized personnel is not covered under this warranty.

NOTE: Requests for returns or claims must be submitted to our Factory Service Center for Return Material Authorization (RMA) instructions and assignment. Returns that do not follow this procedure will not be honored.

Other Products Available from HindlePower:

- AT10.1 Microprocessor Battery Charger JF5006
- AT Series Options & Accessories JF5020
- AT Series Communications Module JF5018
- AT-DC Series Distribution Panel JF5032
- SCR/SCRF Series Utility Battery Charger JF5010
- UMC Universal Maintenance Charger JF5008
- Single Cell Charger JF5007
- Mobile DC Power System JF5041
- The EPIC Series Console JF5043
- Best Battery Selector JF5048

Specifications subject to change