



**LaMARCHE**  
ISO 9001:2015 CERTIFIED

## A12B 52 Series

### Battery Charger / Power Supply “Constavolt”

*The Industry's Most Reliable  
Filtered Battery Charger / Power Supply*



Unit Shown: A12B with 52 Data Logging Package

The La Marche model A12B Series Filtered Battery Chargers / Power Supplies are engineered for the demanding requirements of Switchgear applications, Process Controls and Communications. The magnetic amplifier circuitry is designed to carry continuous and intermittent loads up to the maximum rated output.

Its robust design, unmatched reliability and many customizable features have made this workhorse the standard charger in the industry.

This series of A12B charger assists with NERC PRC-005-6 as it is equipped with Data Logging capability. The charger maintains a record of all the parameters in the DC system. The Data log file is in an Excel format and is easily accessible through a saved monitored micro SD card.

## Standard Features

Magnetic Amplifier Technology

2 Line LCD Display

Discrete Alarm LEDs and Form-C Contacts

Advanced Data Logging (Event/Time Based)

Field Upgradable Firmware Capability

Downloadable Configurations and Settings Files

Float/Equalize Modes

Field Assignable Alarm Relay Contacts

Multi-Mode Equalize Timer

AC Input and DC Output Breaker Protection

AC/DC Surge Suppression (MOV)

Automatic AC Voltage Compensation

$\pm 0.5\%$  DC Voltage Regulation

Adjustable Current Limit Protection (50% to 120%)

Output Filtering in Compliance with NEMA PE5 (Battery Eliminator) and IEEE P2405 (Level 2)

NEMA Type 1 Enclosure / IP20

UL 1012 & C-UL Listed  
(UL 1481 listing available with 46 series)

5-Year Full Warranty  
10-Year Magnetics Warranty

Made in U.S.A

Specifications subject to change without notice

P25-DSA12B-2  
ECN 23600  
08/24

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# Specifications

|                          |                                                                                  |                                                                                                                                                                                       |                                        |                                                             |                                                                |
|--------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------|
| ELECTRICAL               | Available AC Input Voltage Ratings                                               | Single Phase: 60Hz: 120, 208, 220, 240, 480 or 600<br>50Hz: 220/240, 380 or 415<br>Three Phase: 60Hz: 208, 240, 480 or 600<br>50Hz: 220/240, 380 or 415                               |                                        |                                                             |                                                                |
|                          | AC Input Voltage Range                                                           | +10% to -12% from nominal                                                                                                                                                             |                                        |                                                             |                                                                |
|                          | AC Input Frequency Range                                                         | ±5%                                                                                                                                                                                   |                                        |                                                             |                                                                |
|                          | Available DC Output Ratings                                                      | DC Amps: 10 to 400 amperes<br>DC Volts: 12, 24, 48, 130VDC (Others available such as 32, 36 & 260VDC)                                                                                 |                                        |                                                             |                                                                |
|                          | DC Output Range(Min.)                                                            | Lead Acid                                                                                                                                                                             |                                        | Ni-Cad                                                      |                                                                |
|                          |                                                                                  | Float (V/Cell)                                                                                                                                                                        | Equalize(V/Cell)                       | Float (V/Cell)                                              | Equalize(V/Cell)                                               |
|                          |                                                                                  | 2.12 - 2.35                                                                                                                                                                           | 2.2 - 2.45                             | 1.35 - 1.45                                                 | 1.5 - 1.6                                                      |
|                          | Output Filtering (with or without a battery)                                     | 30mV RMS for 12, 24, 48Vdc models and 130Vdc single phase models<br>100mV RMS for 130Vdc three phase models                                                                           |                                        |                                                             |                                                                |
| MECHANICAL               | DC Voltage Regulation                                                            | ±0.5%                                                                                                                                                                                 |                                        |                                                             |                                                                |
|                          | Power Protection                                                                 | AC Breaker, DC Breaker and Current Limit Protection                                                                                                                                   |                                        |                                                             |                                                                |
|                          | Dimensions                                                                       | Varies by size. Refer to the available models chart                                                                                                                                   |                                        |                                                             |                                                                |
|                          | Mounting                                                                         | Varies by Enclosure size                                                                                                                                                              |                                        |                                                             |                                                                |
|                          | Finish                                                                           | Pretreated with a seven stage iron phosphate wash, sealer and deionized rinse. Then coated with an environmentally safe and durable ANSI 61 gray Polyester TGIC Minite powder finish. |                                        |                                                             |                                                                |
| MONITORING               | Audible Noise                                                                    | Less than 65dBA at any point 5 feet from any vertical surface of the unit                                                                                                             |                                        |                                                             |                                                                |
|                          | MTBF                                                                             | Exceeds 250,000 Hours                                                                                                                                                                 |                                        |                                                             |                                                                |
|                          | Display                                                                          | 2 Line LCD Display                                                                                                                                                                    |                                        |                                                             |                                                                |
|                          | Data Logging                                                                     | Events and Time Based (*.CSV File on micro SD Card)                                                                                                                                   |                                        |                                                             |                                                                |
|                          | LED's                                                                            | ·Float<br>·AC ON<br>·Summary                                                                                                                                                          | ·Equalize<br>·AC FAIL<br>·Charger Fail | ·LV/End of Discharge<br>·Low DC Current<br>·Positive Ground | ·HV/HV Shutdown<br>·Overload/Current Limit<br>·Negative Ground |
|                          | Alarm Contacts<br>(2) Form-C Dry Contacts<br>(Field Assignable / Default Listed) | ·Summary<br>·Low DCV                                                                                                                                                                  | ·AC Power Failure<br>·Low DC Current   | ·High DCV<br>·Positive Ground                               | ·High DCV Shutdown<br>·Negative Ground                         |
| STANDARDS AND COMPLIANCE | Optional Communications                                                          | DNP 3.0, MODBUS, MODBUS RTU, SNMP and IEC 61850                                                                                                                                       |                                        |                                                             |                                                                |
|                          | Operating Temperature                                                            | 0° to 50°C (32° to 122°F)                                                                                                                                                             |                                        |                                                             |                                                                |
|                          | Storage Temperature                                                              | -40° to 85°C (-40° to 185°F)                                                                                                                                                          |                                        |                                                             |                                                                |
|                          | Relative Humidity                                                                | 0% to 95% (non-condensing)                                                                                                                                                            |                                        |                                                             |                                                                |
| STANDARDS AND COMPLIANCE | Industrial Battery Chargers                                                      | NEMA PE5 and IEEE P2405                                                                                                                                                               |                                        |                                                             |                                                                |
|                          | UL Battery Charger                                                               | UL Std. No. 1012<br>File E 319318, Guide BBML                                                                                                                                         |                                        |                                                             |                                                                |
|                          | C-UL Battery Charger                                                             | CAN/CSA<br>Std. C22.2 No. 107-2                                                                                                                                                       |                                        |                                                             |                                                                |
|                          | UL Fire Alarm System Power Supply                                                | UL Std. No. 1481<br>(Available with 46 series only. Must Specify Accessory Code 09A<br>Available on 240V or less.)                                                                    |                                        |                                                             |                                                                |

**Notes:** All models where appropriate will carry the U.L. and C-U.L. Battery Charger listing. When U.L. Fire Alarm System Power Supply Listings are required, you must specify this requirement at the time of order. Consult our factory if U.L. approvals are required. Not all models can be U.L. approved. Accessories, type of charger and rating will determine U.L. approval.

## Optional Accessories

### ALARM & CONTROL

- 050/** Ground Detection Switches with DC Voltmeter
- 06D** Indication
- 10G** Forced Load Sharing (with same model number only)
- 103** Remote Sensing
- 20Q** Equalize Fan Control Relay\*
- 19U** Adjustable Ground Detection Sensitivity\*
- 020** AC Breaker Auxiliary Switch
- 027** DC Breaker Auxiliary Switch
- 021** AC Breaker Shunt Trip (Specify Voltage)
- 023** DC Breaker Shunt Trip (Specify Voltage)

### METERING & PROTECTION

- 01M** DC Breaker two Pole High Interrupting  
- 22KAIC (up to 250VDC)
- 01C** AC Breaker two Pole High Interrupting  
- 65/35/18KAIC (240/480/600VAC)
- 01D** AC Breaker two Pole High Interrupting  
- 100/65/25KAIC (240/480/600VAC)
- 01F** AC Breaker three Pole High Interrupting  
- 65/35/18 KAIC (240/480/600VAC)
- 01G** AC Breaker three Pole High Interrupting  
- 100/65/25KAIC (240/480/600VAC)
- 19V** Digital AC Voltage & Current metering (1%)\*
- 102** DC Blocking Diode
- 11L** Lightning Arrestor
- 434** Reverse Polarity Protection
- 068** Audible Alarm w/ Silence Switch\*

### COMMUNICATION PROTOCOLS

- 21J** IEC 61850 (Ethernet)\*
- 21P** DNP 3.0 Communications (RS232/RS485/Ethernet)\*
- 21Q** MODBUS Communications (RS232/RS485/Ethernet)\*
- 21S** MODBUS RTU Serial Data Port (RS232/RS485)\*
- 21X** SNMP Ethernet \*

### MISCELLANEOUS

- 092** Tropicalization (magnetics only) Single Phase
- 093** Tropicalization (magnetics only) Three Phase
- 11F** 30mV Filtering for 130V 3-phase units
- 38J** ABS (38G) & USGC (10B) Single Phase
- 38K** ABS (38G) & USGC (10B) Three Phase
- 11V** Temperature Compensation (Internal Probe)
- 11W** External Temperature Probe 24 ft
- 11Y** External Temperature Probe 100 ft
- 38D** Copper Ground Bus Bar
- 09W** Heat Shrinkable Wire Markers with Electrical Schematic
- 097** SIS Wire (#16 AWG and larger) Markers
- 080** Drip Shield
- Floor Stand (must order separately)
- Special NEMA (3R, 4, 4X and 12) and IP Rated Enclosures

\* Unit must be equipped with 52E Series

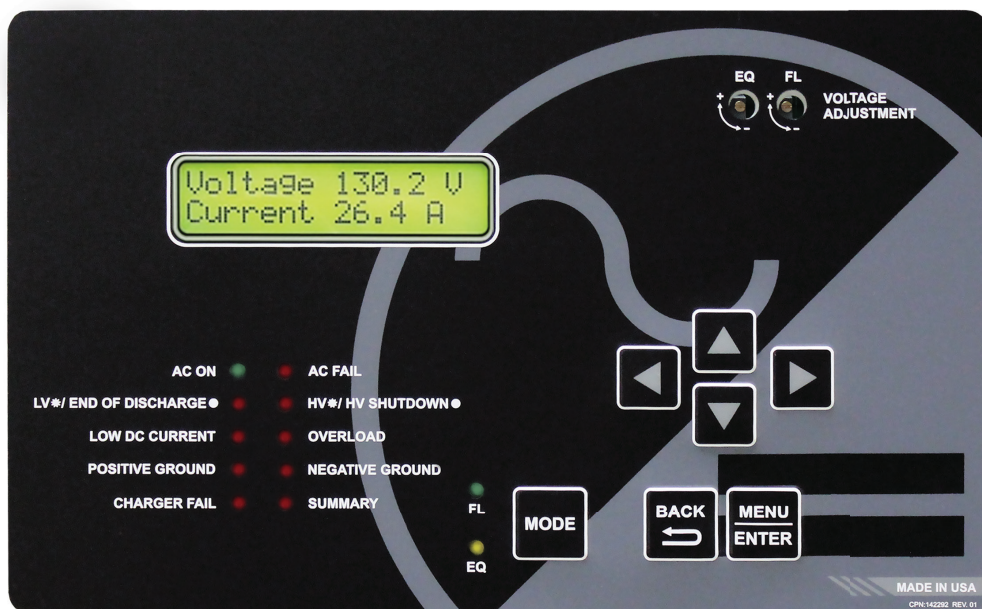
## Available Packages

| PACKAGE #1<br>STANDARD | SINGLE PHASE |                                      | THREE PHASE |                                      |
|------------------------|--------------|--------------------------------------|-------------|--------------------------------------|
|                        |              |                                      |             |                                      |
| PACKAGE #2             | 52E          | Digital Monitoring with Data Logging | 52E         | Digital Monitoring with Data Logging |
|                        | 016          | AC Breaker Two Pole                  | 01B         | AC Breaker Three Pole                |
|                        | 017          | DC Breaker Two Pole                  | 017         | DC Breaker Two Pole                  |
|                        | 10G          | Forced Load Sharing                  | 10G         | Forced Load Sharing                  |
|                        | 102          | DC Blocking Diode                    | 102         | DC Blocking Diode                    |
| PACKAGE #3             | 52E          | Digital Monitoring with Data Logging | 52E         | Digital Monitoring with Data Logging |
|                        | 016          | AC Breaker Two Pole                  | 01B         | AC Breaker Three Pole                |
|                        | 017          | DC Breaker Two Pole                  | 017         | DC Breaker Two Pole                  |
|                        | 21P*         | DNP 3.0 Communications               | 21P*        | DNP 3.0 Communications               |
|                        | 21Q*         | MODBUS Communications                | 21Q*        | MODBUS Communications                |
|                        | 21J*         | IEC 61850 Ethernet Communications    | 21J*        | IEC 61850 Ethernet Communications    |

\*Pick only one communication option: 21P or 21Q or 21J.

## User Interface

- ✓ Voltage
- ✓ Current
- ✓ Active Alarms
- ✓ Last 10 Data Log Events
- ✓ Equalize Cycle Status
- ✓ Real - Time Clock
- ✓ Equalize Cycle Settings
- ✓ Alarms Thresholds and Delays
- ✓ Data Logging Settings
- ✓ Communications Settings
- ✓ Password Protected Menu
- ✓ Firmware Field Upgrade
- ✓ LEDs Test



## Advanced Data Logging

A12B 52-Series is equipped with a time & event based data-log with a battery backup for real-time-clock stamp, written to a removable micro-SD card. This allows trending the health of your DC system, and provides knowledge of the history leading up to the event.

|    | A                                 | B           | C              | D              | E                  | F                   | G                   | H                         |
|----|-----------------------------------|-------------|----------------|----------------|--------------------|---------------------|---------------------|---------------------------|
| 2  | Created on 04/17/2019 at 02:35:19 |             |                |                |                    |                     |                     |                           |
| 3  | Charger Serial Number 123456-01   |             |                |                |                    |                     |                     |                           |
| 4  | Firmware P525DS0001 052620        |             |                |                |                    |                     |                     |                           |
| 5  | <b>Date</b>                       | <b>Time</b> | <b>DCV (V)</b> | <b>DCA (A)</b> | <b>BATTERY (V)</b> | <b>PROBE #1 (C)</b> | <b>PROBE #2 (C)</b> | <b>Event</b>              |
| 6  | 4/17/2019                         | 2:35:19     | 131.2          | 23.5           | 131.1              | 27.3                | -----               | Reset to Defaults         |
| 7  | 4/17/2019                         | 2:36:29     | 125.6          | 23.5           | 125.5              | 27.3                | -----               | 198 #1 Board OK           |
| 8  | 4/17/2019                         | 2:36:29     | 125.6          | 23.5           | 125.5              | 27.3                | -----               | Low Voltage Alarm OK      |
| 9  | 4/17/2019                         | 2:36:29     | 125.6          | 23.5           | 125.5              | 27.3                | -----               | End of Discharge Alarm OK |
| 10 | 4/17/2019                         | 2:36:30     | 136.2          | 0              | 136.1              | 27.3                | -----               | High Voltage Alarm FAIL   |
| 11 | 4/17/2019                         | 2:36:30     | 0              | 0              | 0                  | 27.3                | -----               | Charger Failure Alarm OK  |

Please consult factory for other available cell ranges if desired range not shown.

Must specify only one battery type and number of cells from range shown above.

|                                                    | Model Number                    | DC Amps | DC Fuse Size (Amps) <sup>(1)</sup> | AC Input Phase | AC Input Current Draw @ 100% Load (Amps) <sup>(2)</sup> |       |       |       |       |        |            |           |       |       | Std. Case Size <sup>(4)</sup> | Shipping Weight (Approximate) |      |
|----------------------------------------------------|---------------------------------|---------|------------------------------------|----------------|---------------------------------------------------------|-------|-------|-------|-------|--------|------------|-----------|-------|-------|-------------------------------|-------------------------------|------|
|                                                    |                                 |         |                                    |                | 60Hz Units                                              |       |       |       |       |        | 50Hz Units |           |       |       |                               | lbs                           | kgs  |
|                                                    |                                 |         |                                    |                | A 120                                                   | D 208 | L 220 | B 240 | C 480 | ZD 600 | 240        | B / L 220 | G 380 | J 415 |                               |                               |      |
| 12 volt systems (6L, 9 or 10NC)                    | A12B-10-12V                     | 10      | 20                                 | 1              | 2.5                                                     | 1.4   | 1.4   | 1.3   | ---   | ---    | 1.3        | / 1.4     | ---   | ---   | 3                             | 90                            | 41   |
|                                                    | A12B-15-12V                     | 15      | 25                                 | 1              | 3.8                                                     | 2.2   | 2.1   | 1.9   | ---   | ---    | 1.9        | / 2.1     | ---   | ---   | 3                             | 90                            | 41   |
|                                                    | A12B-20-12V                     | 20      | 30                                 | 1              | 5                                                       | 2.9   | 2.7   | 2.5   | ---   | ---    | 2.5        | / 2.7     | ---   | ---   | 3                             | 95                            | 44   |
|                                                    | A12B-30-12V                     | 30      | 40                                 | 1              | 7.5                                                     | 4.3   | 4.1   | 3.8   | 1.9*  | 1.6*   | 3.8        | / 4.1     | 2.4*  | 2.2*  | 3                             | 105                           | 48   |
|                                                    | A12B-40-12V                     | 40      | 60                                 | 1              | 10                                                      | 5.8   | 5.5   | 5     | 2.5*  | 2.1*   | 5          | / 5.5     | 3.2*  | 2.9*  | 6                             | 155                           | 71   |
|                                                    | A12B-50-12V                     | 50      | 80                                 | 1              | 13                                                      | 7.2   | 6.8   | 6.3   | 3.1*  | 2.6*   | 6.3        | / 6.8     | 4.0*  | 3.6*  | 6                             | 170                           | 78   |
|                                                    | A12B-60-12V                     | 60      | 80                                 | 1              | 15                                                      | 8.7   | 8.2   | 7.5   | 3.8*  | 3.1*   | 7.5        | / 8.2     | 4.7*  | 4.3*  | 6                             | 180                           | 82   |
|                                                    | A12B-75-12V                     | 75      | 100                                | 1              | 19                                                      | 11    | 11    | 9.4   | 4.7*  | 3.9*   | 9.4        | / 11      | 5.9*  | 5.4*  | 6                             | 225                           | 103  |
|                                                    | A12B-100-12V                    | 100     | 150                                | 1              | 25                                                      | 14    | 14    | 13    | 6.3*  | 5.2*   | 13         | / 14      | 7.9   | 7.2   | 8A                            | 315                           | 143  |
|                                                    | 100                             | 150     | 3                                  | ---            | 7.5                                                     | 7.1   | 6.5   | 3.3*  | 2.7*  | 6.5    | / 7.1      | 4.1*      | 3.8*  | 8A    | 325                           | 148                           |      |
|                                                    | 200                             | 250     | 3                                  | ---            | 15                                                      | 14.2  | 13    | 6.6   | 5.4*  | 13     | / 14.2     | 8.2       | 7.6   | 72    | 500                           | 227                           |      |
| 24 volt systems (12L, 18, 19 or 20NC)              | A12B-10-24V                     | 10      | 20                                 | 1              | 5                                                       | 2.9   | 2.7   | 2.5   | ---   | ---    | 2.5        | / 2.7     | ---   | ---   | 3                             | 95                            | 44   |
|                                                    | A12B-15-24V                     | 15      | 25                                 | 1              | 7.5                                                     | 4.3   | 4.1   | 3.8   | 1.9*  | 1.6*   | 3.8        | / 4.1     | 2.4*  | 2.2*  | 3                             | 100                           | 46   |
|                                                    | A12B-20-24V                     | 20      | 30                                 | 1              | 10                                                      | 5.8   | 5.5   | 5     | 2.5*  | 2.1*   | 5          | / 5.1     | 3.2*  | 2.9*  | 3                             | 120                           | 55   |
|                                                    | A12B-25-24V                     | 25      | 35                                 | 1              | 13                                                      | 7.2   | 6.8   | 6.3   | 3.1*  | 2.6*   | 6.3        | / 6.8     | 4.0*  | 3.6*  | 3                             | 135                           | 62   |
|                                                    | A12B-30-24V                     | 30      | 40                                 | 1              | 15                                                      | 8.7   | 8.2   | 7.5   | 3.8*  | 3.1*   | 7.5        | / 8.2     | 4.7*  | 4.3*  | 3                             | 145                           | 66   |
|                                                    | A12B-35-24V                     | 35      | 50                                 | 1              | 18                                                      | 11    | 9.6   | 8.8   | 4.4*  | 3.7*   | 8.8        | / 9.6     | 5.5*  | 5.1*  | 6                             | 190                           | 87   |
|                                                    | A12B-40-24V                     | 40      | 60                                 | 1              | 21                                                      | 12    | 11    | 10    | 5*    | 3.2*   | 10         | / 11      | 6.3*  | 5.8*  | 6                             | 205                           | 93   |
|                                                    | A12B-50-24V                     | 50      | 80                                 | 1              | 26                                                      | 15    | 14    | 13    | 6.3*  | 5.2*   | 13         | / 14      | 7.9   | 7.2   | 6                             | 240                           | 109  |
|                                                    | A12B-60-24V                     | 60      | 80                                 | 1              | 31                                                      | 18    | 17    | 15    | 7.5   | 6.3*   | 15         | / 17      | 9.5   | 8.7   | 6                             | 265                           | 121  |
|                                                    | A12B-75-24V                     | 75      | 100                                | 1              | 38                                                      | 22    | 21    | 19    | 9.4   | 7.8    | 19         | / 21      | 12    | 11    | 72                            | 400                           | 182  |
|                                                    | A12B-100-24V                    | 100     | 150                                | 1              | 51                                                      | 29    | 28    | 26    | 13    | 11     | 26         | / 28      | 16    | 15    | 72                            | 450                           | 205  |
|                                                    |                                 | 100     | 150                                | 3              | ---                                                     | 15    | 14.2  | 13    | 6.6   | 5.4*   | 13         | / 14.2    | 8.2   | 7.6   | 72                            | 500                           | 227  |
|                                                    | A12B-125-24V                    | 125     | 200                                | 3              | ---                                                     | 19    | 18    | 17    | 8.1   | 6.8*   | 17         | / 18      | 11    | 9.4   | 72                            | 525                           | 239  |
|                                                    | A12B-150-24V                    | 150     | 200                                | 3              | ---                                                     | 23    | 22    | 20    | 9.8   | 8.2    | 20         | / 22      | 13    | 12    | 72                            | 630                           | 286  |
|                                                    | A12B-200-24V                    | 200     | 250                                | 3              | ---                                                     | 30    | 29    | 26    | 13    | 11     | 26         | / 29      | 17    | 16    | 27                            | 825                           | 375  |
|                                                    | A12B-250-24V                    | 250     | 300                                | 3              | ---                                                     | 38    | 36    | 33    | 17    | 14     | 33         | / 36      | 21    | 19    | 27                            | 880                           | 400  |
| A12B-300-24V                                       | 300                             | 400     | 3                                  | ---            | 46                                                      | 43    | 40    | 20    | 17    | 40     | / 43       | 25        | 23    | 27    | 940                           | 427                           |      |
| A12B-400-24V                                       | 400                             | 600     | 3                                  | ---            | 61                                                      | 57    | 53    | 26    | 22    | 53     | / 57       | 33        | 31    | 47    | 1350                          | 613                           |      |
| 48 volt systems (24L, 36, 37 or 38NC)              | A12B-10-48V                     | 10      | 20                                 | 1              | 10                                                      | 5.8   | 5.5   | 5     | 2.5*  | 2.1*   | 5          | / 5.5     | 3.2*  | 2.9*  | 3                             | 140                           | 64   |
|                                                    | A12B-15-48V                     | 15      | 25                                 | 1              | 15                                                      | 8.7   | 8.2   | 7.5   | 3.8*  | 3.1*   | 7.5        | / 8.2     | 4.7*  | 4.3*  | 3                             | 180                           | 82   |
|                                                    | A12B-20-48V                     | 20      | 30                                 | 1              | 21                                                      | 12    | 11    | 10    | 5*    | 4.2*   | 10         | / 11      | 6.3*  | 5.8*  | 6                             | 205                           | 93   |
|                                                    | A12B-25-48V                     | 25      | 35                                 | 1              | 26                                                      | 15    | 14    | 13    | 6.3*  | 5.2*   | 13         | / 14      | 7.9   | 7.2   | 6                             | 240                           | 109  |
|                                                    | A12B-30-48V                     | 30      | 40                                 | 1              | 31                                                      | 18    | 17    | 15    | 7.5   | 6.3*   | 15         | / 17      | 9.5   | 8.7   | 6                             | 265                           | 121  |
|                                                    | A12B-40-48V                     | 40      | 60                                 | 1              | 41                                                      | 24    | 22    | 21    | 10    | 8.4    | 21         | / 22      | 13    | 12    | 6                             | 275                           | 125  |
|                                                    | A12B-50-48V                     | 50      | 80                                 | 1              | 51                                                      | 29    | 28    | 26    | 13    | 11     | 26         | / 28      | 16    | 15    | 8A                            | 355                           | 161  |
|                                                    | A12B-60-48V                     | 60      | 80                                 | 3              | ---                                                     | 18    | 17    | 16    | 7.8   | 6.5*   | 16         | / 17      | 9.9   | 9     | 8A                            | 400                           | 182  |
|                                                    | A12B-75-48V                     | 75      | 100                                | 3              | ---                                                     | 23    | 22    | 20    | 9.8   | 8.2    | 20         | / 22      | 13    | 12    | 72                            | 525                           | 239  |
|                                                    | A12B-100-48V                    | 100     | 150                                | 3              | ---                                                     | 30    | 29    | 26    | 13    | 11     | 26         | / 29      | 17    | 16    | 72                            | 625                           | 284  |
|                                                    | A12B-125-48V                    | 125     | 200                                | 3              | ---                                                     | 38    | 36    | 33    | 17    | 14     | 33         | / 36      | 21    | 19    | 72                            | 700                           | 318  |
|                                                    | A12B-150-48V                    | 150     | 200                                | 3              | ---                                                     | 46    | 43    | 40    | 20    | 17     | 40         | / 43      | 25    | 23    | 27                            | 850                           | 386  |
|                                                    | A12B-175-48V                    | 175     | 250                                | 3              | ---                                                     | 53    | 50    | 46    | 23    | 19     | 46         | / 50      | 29    | 27    | 27                            | 1000                          | 454  |
|                                                    | A12B-200-48V                    | 200     | 250                                | 3              | ---                                                     | 61    | 57    | 53    | 26    | 22     | 53         | / 57      | 33    | 31    | 27                            | 1150                          | 522  |
|                                                    | A12B-250-48V                    | 250     | 300                                | 3              | ---                                                     | 76    | 71    | 66    | 33    | 28     | 66         | / 71      | 42    | 38    | 47                            | 1400                          | 635  |
|                                                    | A12B-300-48V                    | 300     | 400                                | 3              | ---                                                     | 91    | 86    | 79    | 40    | 33     | 79         | / 86      | 50    | 46    | 47                            | 1700                          | 772  |
| A12B-400-48V                                       | 400                             | 600     | 3                                  | ---            | 121                                                     | 114   | 105   | 53    | 44    | 105    | / 114      | 66        | 61    | 47    | 1800                          | 817                           |      |
| 130 volt systems (54 through 60L, 92 through 97NC) | A12B-10-130V                    | 10      | 20                                 | 1              | 26                                                      | 15    | 14    | 13    | 6.3*  | 5.2*   | 13         | / 14      | 7.9   | 7.2   | 6                             | 225                           | 103  |
|                                                    | A12B-15-130V                    | 15      | 25                                 | 1              | 38                                                      | 22    | 21    | 19    | 9.4   | 7.8    | 19         | / 21      | 12    | 11    | 6                             | 250                           | 114  |
|                                                    | A12B-20-130V                    | 20      | 30                                 | 1              | 51                                                      | 29    | 28    | 26    | 13    | 11     | 26         | / 28      | 16    | 15    | 6                             | 270                           | 123  |
|                                                    |                                 | 20      | 30                                 | 3              | ---                                                     | 15    | 14    | 13    | 6.5   | 10     | 13         | / 14      | 8.2   | 7.5   | 8A                            | 360                           | 164  |
|                                                    | A12B-25-130V                    | 25      | 35                                 | 1              | 63                                                      | 37    | 35    | 32    | 16    | 14     | 32         | / 35      | 20    | 19    | 8A                            | 355                           | 161  |
|                                                    |                                 | 25      | 35                                 | 3              | ---                                                     | 19    | 18    | 16    | 8.1   | 13     | 16         | / 18      | 10    | 9.4   | 8A                            | 390                           | 177  |
|                                                    | A12B-30-130V                    | 30      | 40                                 | 1              | 75                                                      | 44    | 41    | 38    | 19    | 16     | 38         | / 41      | 24    | 22    | 8A                            | 390                           | 177  |
|                                                    |                                 | 30      | 40                                 | 3              | ---                                                     | 23    | 21    | 20    | 9.8   | 16     | 20         | / 21      | 12    | 11    | 8A                            | 430                           | 196  |
|                                                    | A12B-35-130V                    | 35      | 50                                 | 1              | 88                                                      | 51    | 48    | 44    | 22    | 19     | 44         | / 48      | 28    | 26    | 72                            | 505                           | 230  |
|                                                    |                                 | 35      | 50                                 | 3              | ---                                                     | 27    | 25    | 23    | 12    | 9.5    | 23         | / 25      | 15    | 14    | 72                            | 580                           | 264  |
|                                                    | A12B-40-130V                    | 40      | 60                                 | 1              | 101                                                     | 58    | 55    | 51    | 26    | 21     | 51         | / 55      | 32    | 29    | 72                            | 550                           | 250  |
|                                                    |                                 | 40      | 60                                 | 3              | ---                                                     | 30    | 29    | 26    | 13    | 11     | 26         | / 29      | 17    | 16    | 72                            | 625                           | 284  |
|                                                    | A12B-50-130V                    | 50      | 80                                 | 3              | ---                                                     | 38    | 36    | 33    | 17    | 14     | 33         | / 36      | 21    | 19    | 72                            | 645                           | 293  |
|                                                    | A12B-60-130V                    | 60      | 80                                 | 3              | ---                                                     | 46    | 43    | 40    | 20    | 17     | 40         | / 43      | 25    | 23    | 27                            | 865                           | 393  |
|                                                    | A12B-75-130V                    | 75      | 100                                | 3              | ---                                                     | 57    | 54    | 49    | 25    | 21     | 49         | / 54      | 31    | 29    | 27                            | 930                           | 422  |
|                                                    | A12B-100-130V                   | 100     | 150                                | 3              | ---                                                     | 76    | 71    | 66    | 33    | 28     | 66         | / 71      | 42    | 38    | 27                            | 1040                          | 472  |
|                                                    | A12B-125-130V                   | 125     | 200                                | 3              | ---                                                     | 94    | 89    | 82    | 41    | 34     | 82         | / 89      | 52    | 48    | 47                            | 1500                          | 681  |
|                                                    | A12B-150-130V                   | 150     | 200                                | 3              | ---                                                     | 113   | 107   | 98    | 49    | 41     | 98         | / 107     | 62    | 57    | 47                            | 1800                          | 817  |
|                                                    | A12B-175-130V                   | 175     | 250                                | 3              | ---                                                     | 132   | 125   | 114   | 57    | 48     | 114        | / 125     | 72    | 66    | 47                            | 1950                          | 885  |
|                                                    | A12B-200-130V                   | 200     | 250                                | 3              | ---                                                     | 151   | 142   | 131   | 66    | 55     | 131        | / 142     | 83    | 76    | 47                            | 2100                          | 953  |
|                                                    | A12B-250-130V <sup>(5)</sup>    | 250     | 300                                | 3              | ---                                                     | 188   | 178   | 163   | 82    | 68     | 163        | / 178     | 103   | 95    | 47                            | 2300                          | 1044 |
|                                                    | A12B-300-130V <sup>(3)(5)</sup> | 300     | 400                                | 3              | ---                                                     | 226   | 214   | 196   | 98    | 82     | 196        | / 214     | 124   | 113   | 47B                           | 2400                          | 1089 |
|                                                    | A12B-400-130V <sup>(3)(5)</sup> | 400     | 600                                | 3              | ---                                                     | 301   | 285   | 261   | 131   | 109    | 261        | / 285     | 165   | 151   | 57                            | 2550                          | 1157 |

(1) Optional DC Breaker when ordered in lieu of standard fuse(s) may slightly differ in ratings. AC Draws shown with asterisk\* when equipped with AC Breaker, a series fuse is included.

(2) AC Current Draws based @ 100% load and standard battery cells of 6L (12V), 12L (24V), 24L (48V) and 60L (130V). Maximum Current Draw is 120% of ratings shown. AC Current draws shown in Italics have high current draws for their specific input voltages - verification of input power requirement should be done prior to ordering.

(3) Denotes units not U.L Listed

(4) Case sizes shown are for standard 60 Hz units and may differ depending on optional accessories and/or 50Hz input. Please consult factory when dimensions are critical.

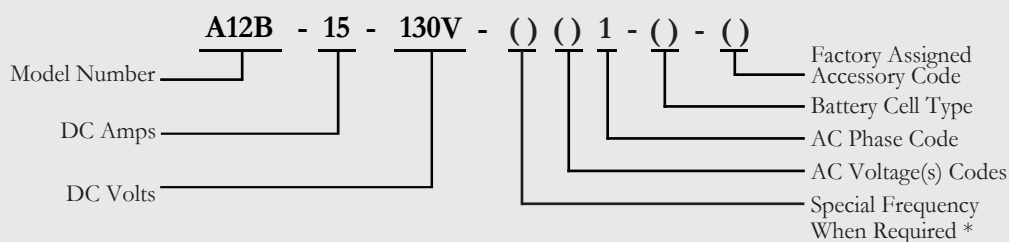
(5) Denotes units not UL 1481 Listed.

## Case Specifications

| Case No. | Overall Dimensions |      |        |      |        |      | Cable Entry (when facing unit) |                         |            |
|----------|--------------------|------|--------|------|--------|------|--------------------------------|-------------------------|------------|
|          | Width              |      | Depth  |      | Height |      | AC Input                       | DC Output               | Mounting   |
|          | in                 | mm   | in     | mm   | in     | mm   |                                |                         |            |
| 3        | 15.375             | 391  | 11.000 | 279  | 23.750 | 603  | Right                          | Left                    | Wall/Floor |
| 6        | 25.580             | 650  | 13.935 | 354  | 28.000 | 711  | Right/Top<br>Bottom            | Left/Top<br>Bottom      | Wall/Floor |
| 7        | 14.250             | 362  | 10.625 | 270  | 19.875 | 505  | Right                          | Left                    | Wall/Floor |
| 8A       | 27.200             | 691  | 15.250 | 387  | 32.500 | 826  | Right/Top<br>Bottom/Side       | Left/Top<br>Bottom/Side | Floor      |
| 27       | 27.312             | 694  | 25.875 | 657  | 56.125 | 1426 | Top                            | Top                     | Floor      |
| 47       | 38.000             | 965  | 39.375 | 1000 | 70.000 | 1778 | Top/Bottom                     | Top/Bottom              | Floor      |
| 47B      | 38.000             | 965  | 46.750 | 1188 | 71.125 | 1807 | Top/Bottom                     | Top/Bottom              | Floor      |
| 57       | 60.000             | 1524 | 36.000 | 914  | 80.000 | 2032 | Bottom                         | Bottom                  | Floor      |
| 72       | 27.000             | 686  | 23.500 | 597  | 44.500 | 1130 | Right/Bottom                   | Bottom                  | Floor      |

**Notes:** Case sizes may differ depending on optional accessories and / or 50Hz input. Please consult factory when dimensions are critical. Dimensions shown above are overall footprint. Detailed dimensions drawings are available for mounting purposes.

## Model Number Nomenclature



### AC Phase Codes

- 1 - Single Phase
- 3 - Three Phase

### AC Voltage Codes

- | 60Hz     | 50Hz         |
|----------|--------------|
| A - 120  | BL - 240/220 |
| D - 208  | G - 380      |
| L - 220  | J - 415      |
| B - 240  |              |
| C - 480  |              |
| ZD - 600 |              |

### Special Frequency Code

- 5 = 50Hz
- \* 60Hz standard unless special code is entered

### Battery Cell Type

- L = Lead Acid
- LR = VRLA
- N = Nickel Cadmium

## Ordering Information

### When ordering, please specify:

- |                                    |                                                                  |
|------------------------------------|------------------------------------------------------------------|
| - La Marche Model Number A12B      | - Intermittent DC Loads and Duration                             |
| - Input Voltage, Frequency, Phase  | - Continuous DC Load                                             |
| - Number and Type of Battery Cells | - Allowable Recharge Time from Full Discharge (where applicable) |
| - Amp Hour Capacity of Battery     | - Package Number or for Custom Order Optional Accessories        |
|                                    | - Verify AC Input Current Draw                                   |