



# ***GOLDEN LION CHARGERS***

***by Natech Batteries and Chargers Inc.***

***1-888-347-9550***



## ***GOLDEN LION CHARGER SINGLE AND THREE PHASES***

- **5 YEAR WARRANTY 100%**
- Electronic controller with failure diagnostics
- Last charge information stored as long as battery remains connected
- Automatic START/STOP
- Equalizing Charge
- Overload cutout on transformer

***GOLDEN LION CHARGER*** 120/208/240 Volts Single Phase – 600 Volts Three Phases

### Technical Data

- Single-Phase input voltage 120/208/240V AC – Frequency 50/60 Hz.
- Three-Phases input voltage 600V AC – Frequency 50/60 Hz.
- Transformer adjustments to  $\pm 5\%$  V AC.
- Tropicalized stray-flux transformer, copper windings with double enamel insulation, class H, impregnated with non-toxic resins, kiln-dried.
- Transformer with recognized insulation system which ensures high reliability even in difficult operating conditions.
- Low voltage control circuit (24V AC)
- Overload cutout on transformer
- Rectifier bridge equipped with interference suppressing filters.
- Protection fuses on mains input, and DC output.
- Final acceptance test conforming to safety regulations.
- Complete with charging cables and connector.
- Power cord to be installed by the customer.
- Electronic controller with microprocessor and failure diagnostics powered from battery voltage.
- Polycarbonate plate with LED's indicating the charging stages or faults, if any.
- LAB-TEST electronic circuit conforming to the EMC-DIRECTIVE and CE marking.
- Charger switching off on battery disconnection while on charge.
- Short check of functions and times.
- 4 digits LCD with 12 multifunctional symbols displaying the charging data recalled by pushing the ON/OFF button.



# **GOLDEN LION CHARGERS**

**by Natech Batteries and Chargers Inc.**

**1-888-347-9550**

With the *Golden Lion Charger* line the quality meets and/or exceeds every OEM specification.

With every *Golden Lion Charger* you are guaranteed the following;

- **5 Year Warranty on Diode Bridge & Transformer**
- **5 Year Warranty on All Internal Components.**
- 10 Foot Battery Cables
- 10 Foot A/C Power Leads
- Individually Boxed & Serial Numbered
- Full Instruction/Specification Manuals included
- State-Of-The-Art Digital Read Outs
- In House Technicians Providing full After-Sale Customer Support
- 50 or 60 Hz Self Adjusting

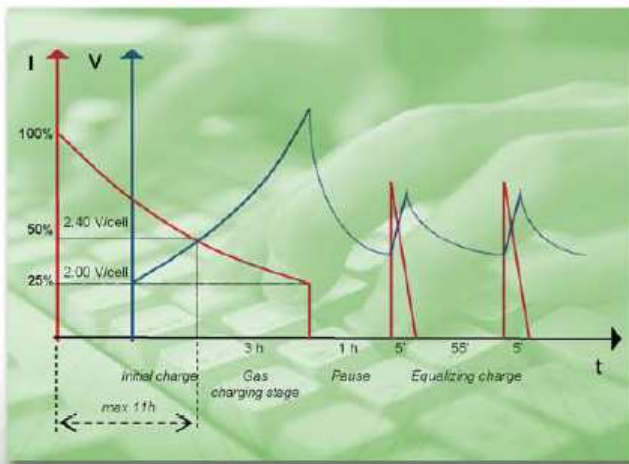


- Real Time Delivered Current (A) and Battery Voltage (V)
- Battery Voltage before charging (V) and Initial Current of the Charge (A)
- Delivered Charge (Ah)
- Overall charging time (hours : minutes)
- Final Voltage reached by battery (V) and Final Current delivered (A)

The following charging parameters can be programmed by means of DIP switches:

1. Automatic start (Autostart)
2. Final charge timer settable to 8 values from 1h to 5h 30m
3. Safety timer on the initial stage settable to 7h or 11h (standard)
4. Equalizing charge
5. Proportional charge

## **DESCRIPTION OF CHARGING CHARACTERISTICS**



### **CHARGING CHARACTERISTIC (TL EQUALIZER)**

- Charging with decreasing current until a voltage of 2.40 V/cell is reached and the gas charging stage begins (adjustable).
- Time-controlled gas charging stage, adjustable by DIP switch (3 hours as standard).
- Foreseen charging time: 8 + 9 hours (without equalizing charge).
- The equalizing charge is automatically performed 60 minutes after the last charge cycle.

### **CHARGING CHARACTERISTIC (MATIC POINT / POWER POINT)**

- Charging with decreasing current until a voltage of 2.40 V/cell is reached and the gas charging stage begins (adjustable).
- Time-controlled gas charging stage, adjustable by DIP switch (3 hours as standard).
- Foreseen charging time: 8 + 9 hours (without equalizing charge).
- The equalizing charge is automatically performed 60 minutes after the last charge cycle.



# **GOLDEN LION CHARGERS**

**by Natech Batteries and Chargers Inc.**

**1-888-347-9550**

## **GOLDEN LION CHARGERS BY NATECH BATTERIES**

### **GOLDEN LION CHARGER 208/240 - SINGLE PHASE**

| <b>MODEL</b> | <b>VOLTS DC</b> | <b>AMPS DC</b> | <b>LEAD-ACID BATTERY</b> |
|--------------|-----------------|----------------|--------------------------|
| GOL1-12-80   | 12V             | 80             | 400-560                  |
| GOL1-12-90   | 12V             | 90             | 450-630                  |
| GOL1-12-100  | 12V             | 100            | 500-700                  |
| GOL1-12-120  | 12V             | 120            | 600-840                  |
| GOL1-24-60   | 24V             | 60             | 300-420                  |
| GOL1-24-80   | 24V             | 80             | 400-560                  |
| GOL1-24-100  | 24V             | 100            | 500-700                  |
| GOL1-24-120  | 24V             | 120            | 600-840                  |
| GOL1-24-140  | 24V             | 140            | 700-980                  |
| GOL1-24-160  | 24V             | 160            | 800-1120                 |
| GOL1-36-50   | 36V             | 50             | 250-350                  |
| GOL1-36-60   | 36V             | 60             | 300-420                  |
| GOL1-36-80   | 36V             | 80             | 400-560                  |
| GOL1-36-100  | 36V             | 100            | 500-700                  |
| GOL1-36-120  | 36V             | 120            | 600-840                  |
| GOL1-36-140  | 36V             | 140            | 700-980                  |
| GOL1-36-160  | 36V             | 160            | 800-1120                 |
| GOL1-36-180  | 36V             | 180            | 900-1260                 |
| GOL1-48-50   | 48V             | 50             | 250-350                  |
| GOL1-48-60   | 48V             | 60             | 300-420                  |
| GOL1-48-80   | 48V             | 80             | 400-560                  |
| GOL1-48-100  | 48V             | 100            | 500-700                  |
| GOL1-48-120  | 48V             | 120            | 600-840                  |
| GOL1-72-80   | 72V             | 80             | 400-560                  |
| GOL1-72-100  | 72V             | 100            | 500-700                  |
| GOL1-72-120  | 72V             | 120            | 600-840                  |

### **GOLDEN LION CHARGER 600 VOLTS - 3 PHASES**

| <b>MODEL</b> | <b>VOLTS DC</b> | <b>AMPS DC</b> | <b>LEAD-ACID BATTERY</b> |
|--------------|-----------------|----------------|--------------------------|
| GOL3-12-80   | 12V             | 80             | 400-560                  |
| GOL3-12-90   | 12V             | 90             | 450-630                  |
| GOL3-12-100  | 12V             | 100            | 500-700                  |
| GOL3-12-120  | 12V             | 120            | 600-840                  |
| GOL3-24-60   | 24V             | 60             | 300-420                  |
| GOL3-24-80   | 24V             | 80             | 400-560                  |
| GOL3-24-100  | 24V             | 100            | 500-700                  |
| GOL3-24-120  | 24V             | 120            | 600-840                  |
| GOL3-24-140  | 24V             | 140            | 700-980                  |
| GOL3-24-160  | 24V             | 160            | 800-1120                 |
| GOL3-24-180  | 24V             | 180            | 900-1260                 |
| GOL3-24-200  | 24V             | 200            | 1000-1400                |
| GOL3-36-60   | 36V             | 60             | 300-420                  |
| GOL3-36-80   | 36V             | 80             | 400-560                  |
| GOL3-36-100  | 36V             | 100            | 500-700                  |
| GOL3-36-120  | 36V             | 120            | 600-840                  |
| GOL3-36-140  | 36V             | 140            | 700-980                  |
| GOL3-36-160  | 36V             | 160            | 800-1120                 |
| GOL3-36-180  | 36V             | 180            | 900-1260                 |
| GOL3-36-200  | 36V             | 200            | 1000-1400                |
| GOL3-36-220  | 36V             | 220            | 1100-1540                |
| GOL3-36-240  | 36V             | 240            | 1200-1680                |
| GOL3-48-50   | 48V             | 50             | 250-350                  |
| GOL3-48-60   | 48V             | 60             | 300-420                  |
| GOL3-48-80   | 48V             | 80             | 400-560                  |
| GOL3-48-100  | 48V             | 100            | 500-700                  |
| GOL3-48-120  | 48V             | 120            | 600-840                  |
| GOL3-48-140  | 48V             | 140            | 700-980                  |
| GOL3-48-160  | 48V             | 160            | 800-1120                 |
| GOL3-48-180  | 48V             | 180            | 900-1260                 |
| GOL3-48-200  | 48V             | 200            | 1000-1400                |
| GOL3-48-220  | 48V             | 220            | 1100-1540                |
| GOL3-48-240  | 48V             | 240            | 1200-1680                |
| GOL3-72-80   | 72V             | 80             | 400-560                  |
| GOL3-72-100  | 72V             | 100            | 500-700                  |
| GOL3-72-120  | 72V             | 120            | 600-840                  |
| GOL3-72-140  | 72V             | 140            | 700-980                  |



# ***GOLDEN LION CHARGERS***

***by Natech Batteries and Chargers Inc.***

***1-888-347-9550***

## **GOLDEN LION CHARGERS BY NATECH BATTERIES**

**GOLDEN LION CHARGER  
120 VOLTS - PLUG INS CHARGER**

| <b>MODEL</b> | <b>VOLTS DC</b> | <b>AMPS DC</b> | <b>LEAD-ACID BATTERY</b> |
|--------------|-----------------|----------------|--------------------------|
| GOL1-12-20   | 12V             | 20             | 100-140                  |
| GOL1-12-30   | 12V             | 30             | 150-210                  |
| GOL1-12-40   | 12V             | 40             | 200-280                  |
| GOL1-12-50   | 12V             | 50             | 250-350                  |
| GOL1-12-60   | 12V             | 60             | 300-420                  |
| GOL1-24-20   | 24V             | 20             | 100-140                  |
| GOL1-24-25   | 24V             | 25             | 140-200                  |
| GOL1-24-30   | 24V             | 30             | 150-210                  |
| GOL1-24-40   | 24V             | 40             | 200-280                  |
| GOL1-24-50   | 24V             | 50             | 250-350                  |
| GOL1-36-20   | 36V             | 20             | 100-140                  |
| GOL1-36-30   | 36V             | 30             | 150-210                  |
| GOL1-36-40   | 36V             | 40             | 200-280                  |
| GOL1-48-20   | 48V             | 20             | 100-140                  |
| GOL1-48-30   | 48V             | 30             | 150-210                  |