



GLOBAL ELECTRIC

**GLOBAL ELECTRIC VEHICLES COMPANY**

9899094651



**SUPPLYING  
BATTERY CHARGERS  
TO THE MATERIAL  
HANDLING  
INDUSTRIES SINCE  
1986**



**MORE THAN  
60,000  
CHARGERS WORKING  
IN INDIA &  
OTHER PARTS  
OF THE WORLD**

**SMART & ROBUST TRACTION BATTERY CHARGERS**  
for Fork Lifts, Reach Trucks, Stackers  
Pallet Trucks, Tow Trucks, Gold Carts

✉ [Globelectricvehiclescompany@gmail.com](mailto:Globelectricvehiclescompany@gmail.com)

🌐 [www.globelectricvehiclescompany.com](http://www.globelectricvehiclescompany.com)

## ABOUT US

Sirius has been manufacturing battery chargers Since 1986 and has over 60,000 chargers working in India and overseas, in last 25 years.

All Sirius products are designed, verified and validated in-house by a vibrant team of engineers which is well versed in the needs of the Traction and Automotive industries.

The Sirius engineering team has many firsts to its credit:



### LEAD ACID BATTERY CHARGER

The first to introduce sophisticated displays presenting useful charging information to the user. (Including charging times and AH returned to the battery during a charging cycle).

The first to develop profile control software to cater to all types of Lead-Acid batteries

### TRACTION BATTERIES

The first to introduce constant current chargers in India (MP SERIES)

The first to introduce SUPER FAST chargers to enable safe charging of Traction batteries in less than 3 hours (FAST CHARGER SERIES)

The first to introduce a high-frequency charger for Traction battery re-charging (SWITCH MODE HF SERIES)

### AUTO BATTERIES

The first to introduce a timed, constant current system for first time charging of automotive batteries with multiple battery selection (IRC)

The first to introduce a 'Smart' charger for recovery of sulfated automotive batteries (AUTO SMART)

### BATTERY FORK LIFTS USAGE ANALYSIS

The first to introduce an Ampere -Hour-Prover specifically for diagnostic needs (AH PROVER)

### BATTERY FORK LIFTS MAINTENANCE

The first to introduce an indigenously developed Battery Discharge Indicator (BDI)

## SINGLE PHASE CHARGER



### HF Series Chargers for

**LIGHT WEIGHT HIGH FREQUENCY  
CHARGERS FOR LIGHT  
INDUSTRIAL ENVIRONMENTS**

#### Features

1. Save Space - 1/4 the size of Conventional Chargers.
2. Save Power - High Efficiency, Uses 30% less power as compared to Conventional Chargers.
3. AUTO "SAFE CHARGE" CHARGING with Equalising Facility, this will extend battery life.
4. Compensated Charging for - Temperature, Age of battery and depth of discharge.
5. Front panel LEDs for displaying charger and charging status.
6. Fault Status LED's.
7. LCD display to display charging voltage, charging current, charge time and Ampere-Hours put back.
8. High Frequency versions (HF1/VHF1 series) available up to 48V, 25A (Single-Phase)

#### HF Series Charger Selection Chart

Model	Battery Ah for 8 Hrs Recharge Time
HF 12V, 10A	77 Ah
HF 12V, 15A	116 Ah
HF 12V, 20A	154 Ah
HF 24V, 15A	116 Ah
HF 24V, 20A	154 Ah
HF 24V, 25A	192 Ah
HF 24V, 30A	231 Ah
HF 24V, 35A	269 Ah
HF 30V, 35A	269 Ah
HF 36V, 30A	231 Ah
HF 48V, 10A	77 Ah
HF 48V, 20A	154 Ah
HF 48V, 25A	192 Ah

### For Re-Charging and Equalising of Flooded Lead-Acid Batteries

1. Features two modes – 'NORMAL' and 'EQUALISE'
2. 'NORMAL mode re-charging' means restoring charge to a battery that is discharged after normal usage in the vehicle. The HF1 Charger in NORMAL mode can re-charge batteries that have been discharged down to 1.55 V/cell.
3. Equalising charge is required for batteries after they are fully charged to ensure that all cells are balanced – i.e. all cell voltages and battery specific gravities are approximately equal. This ensures that all cells of the battery are discharged during the work-shift phase. This prevents some cells from being either under-charged or over-charged during the charging phase and prolongs battery life.
4. EQUALISE mode charging in the HF1 Charger combines the functions of recovering deeply-discharged batteries, re-charging up to 100% state-of-charge and providing equalizing charge.
5. The HF1 Charger in 'EQUALISE mode' allows charging of batteries that are discharged down to 1.1V/cell (deeply-discharged).
6. Leading battery manufacturers recommend true constant current equalizing. This is to "extend battery life".



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## SINGLE PHASE CHARGER



### MP1 Chargers for

### HEAVY DUTY 50Hz CHARGERS FOR HEAVY INDUSTRIAL ENVIRONMENTS

#### Features

1. 'Smart Charge' features to extend battery life
2. AUTO-CUT-OFF when battery is 100 % Charged.
3. LCD display to display charging voltage, charging current, charge time and Ampere-Hours put back.
4. No Overcharging/Undercharging.
5. EQUALISE Facility, Temperature Compensation
6. Electronic protection against reverse battery, over current & short circuit.
7. Accepts wide input voltage variation.
8. Front panel LEDs for displaying charging and fault status.

#### MP1 Charger Selection Chart

Model	Battery Ah for 8 Hrs Recharge Time
MP1 12V, 10A	77 Ah
MP1 12V, 15A	116 Ah
MP1 12V, 20A	154 Ah
MP1 24V, 15A	116 Ah
MP1 24V, 20A	154 Ah
MP1 24V, 25A	192 Ah
MP1 24V, 30A	231 Ah
MP1 24V, 35A	269 Ah
MP1 24V, 40A	308 Ah
MP1 24V, 45A	346 Ah
MP1 24V, 55A	440 Ah
MP1 30V, 35A	269 Ah
MP1 36V, 30A	231 Ah
MP1 36V, 50A	385 Ah
MP1 48V, 10A	77 Ah
MP1 48V, 20A	154 Ah
MP1 48V, 25A	192 Ah
MP1 48V, 30A	192 Ah
MP1 48V, 25A	192 Ah
MP1 48V, 30A	231 Ah
MP1 48V, 35A	269 Ah
MP1 72V, 25A	192 Ah
MP1 80V, 20A	154 Ah

### For Re-Charging and Equalising of Flooded Lead-Acid Batteries

1. Features two modes – 'NORMAL' and 'EQUALISE'
2. 'NORMAL mode re-charging' means restoring charge to a battery that is discharged after normal usage in the vehicle. The MP3 Charger in NORMAL mode can re-charge batteries that have been discharged down to 1.55 V/cell.
3. Equalising charge is required for batteries after they are fully charged to ensure that all cells are balanced – i.e. all cell voltages and battery specific gravities are approximately equal. This ensures that all cells of the battery are discharged during the work-shift phase. This prevents some cells from being either under-charged or over-charged during the charging phase and prolongs battery life.
4. EQUALISE mode charging in the MP3 Charger combines the functions of recovering deeply-discharged batteries, re-charging up to 100% state-of-charge and providing equalizing charge.
5. The MP3 Charger in 'EQUALISE mode' allows charging of batteries that are discharged down to 1.1V/cell (deeply-discharged).
6. Leading battery manufacturers recommend true constant current equalizing. This is to "extend battery life".z

## THREE PHASE CHARGER



### MP3 Chargers for

### HEAVY DUTY 50Hz CHARGERS FOR HEAVY INDUSTRIAL ENVIRONMENTS

#### Features

1. 'Smart Charge' features to extend battery life
2. AUTO-CUT-OFF when battery is 100 % Charged.
3. LCD display to display charging voltage, charging current, charge time and Ampere-Hours put back.
4. No Overcharging/Undercharging.
5. EQUALISE Facility, Temperature Compensation
6. Electronic protection against reverse battery, over current and short circuit.
7. Accepts wide input voltage variation.
8. Front panel LEDs for displaying charging and fault status.

#### MP3 Charger Selection Chart

AMPS	8 Hrs	10 Hrs	12 Hrs
20	154 Ah	190 Ah	222 Ah
25	192 Ah	238 Ah	278 Ah
30	231 Ah	286 Ah	333 Ah
35	269 Ah	333 Ah	389 Ah
40	308 Ah	381 Ah	444 Ah
45	346 Ah	429 Ah	500 Ah
50	385 Ah	476 Ah	555 Ah
60	461 Ah	571 Ah	667 Ah
70	538 Ah	660 Ah	778 Ah
80	615 Ah	762 Ah	889 Ah
90	682 Ah	857 Ah	1000 Ah
95	731 Ah	905 Ah	1055 Ah
100	769 Ah	952 Ah	1111 Ah

#### For Re-Charging and Equalising of Flooded Lead-Acid Batteries

1. Features two modes – 'NORMAL' and 'EQUALISE'
2. 'NORMAL mode re-charging' means restoring charge to a battery that is discharged after normal usage in the vehicle. The MP3 Charger in NORMAL mode can re-charge batteries that have been discharged down to 1.55 V/cell.
3. Equalising charge is required for batteries after they are fully charged to ensure that all cells are balanced – i.e. all cell voltages and battery specific gravities are approximately equal. This ensures that all cells of the battery are discharged during the work-shift phase. This prevents some cells from being either under-charged or over-charged during the charging phase and prolongs battery life.
4. EQUALISE mode charging in the MP3 Charger combines the functions of recovering deeply-discharged batteries, re-charging up to 100% state-of-charge and providing equalizing charge.
5. The MP3 Charger in 'EQUALISE mode' allows charging of batteries that are discharged down to 1.1V/cell (deeply-discharged).
6. Leading battery manufacturers recommend true constant current equalizing. This is to "extend battery life".



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## INDUSTRIAL BATTERY CHARGERS

SPECIFICATIONS	MP1/HF - CHARGER	MP3 -CHARGER
AC Input Voltage	175V - 265Vac, 50/60Hz	3 Phase, Neutral 380 - 475Vac, 50/60Hz
DC Output Voltage / Current	24V / 36V / 10A - 45A 48V / 10A - 30 A	24V / 36V / 48V / 50A -100A 72V / 50A -100A 80V / 50A -100A
Recommended Battery Size	75Ah to 520Ah	375Ah to 1120Ah
Recommended Battery Type	Lead Acid, VRLA and Li Ion Batteries	Lead Acid, VRLA and Li Ion Batteries
Charger Efficiency	Approx 82%	Approx 85%
Operating Temperature	0°C to 70°C (-32°F to 158°F)	0°C to 70°C (-32°F to 158°F)
Storage Temperature	- 25°C to 70°C	- 25°C to 70°C
Temperature Compensation	Internal	Internal
Application	Pallet Trucks, Stackers	Fork Lifts



## SOME OF OUR CLIENTS





## MP1

### Single Phase Traction Battery Charger

#### Technical Specifications

Input Voltage Range	180-265VAC, 50/60Hz
Battery Type	Lead Acid
Recommended Battery Size	50Ah to 350Ah
Efficiency	Approximately 80%
Indication	LED/ LCD
Power Factor	0.80
Charging Profile	CC-CV/ Customizable
Operating Temperature	0°C to 45°C
Place of installation	Internal
Certification	Available on request

#### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle

#### Protection

- Smart Charge' features to extend battery life
- AUTO-CUT-OFF when battery is 100 % Charged.
- LCD display to display charging voltage, charging current, charge time and Ampere-Hours put back
- No Overcharging/Undercharging.
- EQUALISE Facility, Temperature Compensation.
- Electronic protection against reverse battery, over current & short circuit.
- Accepts wide input voltage variation.
- Front panel LEDs for displaying charging and fault status.

Ingress Protection IP20

#### Product Variants

S No.	Voltage	Current
1	12V	08A to 65A
2	24V	05A to 70A
3	30V	15A to 70A
4	36V	15A to 70A
5	48V	10A to 50A

#### Dimensions

S No.	Product Variant	Dimensions
1	12V, 08A to 25A 24V, 05A to 10A 24V	375mm X 300mm X 250mm
2	12V, 30A to 65A 24V, 15A to 70A 30V, 15A to 50A 36V, 15A to 40A 48V, 10A to 40A	250mm X 450mm X 280mm
3	30V, 55A to 70A 36V, 45A to 70A 48V, 45A to 50A	300mm X 500mm X 310mm

#### Applications

- Battery Operated Pallet Trucks
- Stackers Floor
- Cleaners

Office : #2, Street No 3, 12 Biswa, Behind Bharat Petrol Pump, Sector-5, Sheetla Mata Mandir Road, Gurugram-122001 Haryana


[Globelectricvehiclescompany@gmail.com](mailto:Globelectricvehiclescompany@gmail.com)

[www.globelectricvehiclescompany.com](http://www.globelectricvehiclescompany.com)



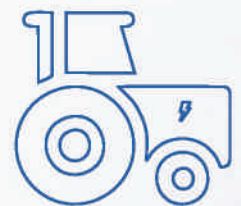


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**CHARGING SOLUTIONS**



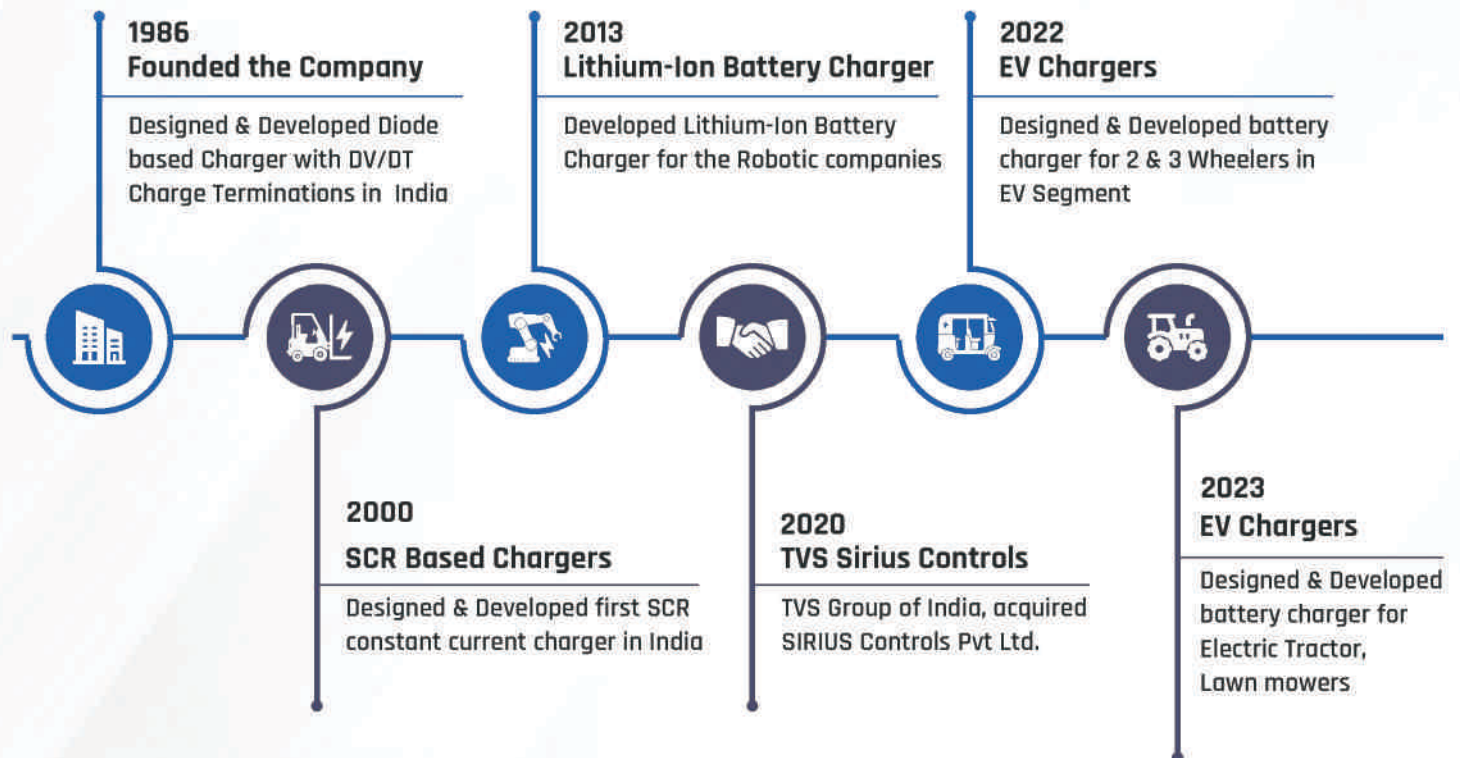
## About Us

Sun Tyre & Wheel Systems, part of the 109-year, \$8 billion TVS Group of India, acquired SIRIUS Controls Pvt Ltd. In Mar-2020. SIRIUS Controls Pvt Ltd. was set up in 1986 to produce Chargers for Flooded Lead Acid, VRLA, and Lithium batteries used in Material Handling Equipment. We have over 95% market share of all major MHE OEMs in India.

Our core strength is in our Engineering Design Centre which continuously innovates, develops, expands and improves with a "can do" approach for all our global customers. As a result, we design solutions for all challenges and opportunities from a full range of battery chargers across complete spectrum of price points. Our unique business model, a passion for reliability, unrivalled customer service and an enduring loyalty to our clients make TVS Sirius a preferred partner for customers worldwide.

We indigenously develop, test and manufacture all our chargers in India. One of our other key strengths lies in the ability to optimize the supply chain, ensuring timely access to raw materials and efficient manufacturing and assembly processes. Implementing rigorous quality control measures, such as Total Quality Management, ensures that our products meet or exceed industry standards, reducing defects and enhancing reliability.

## Timeline





## 1000 WATTS (1kW) CHARGER

Model No - AS 1000

### Technical Specifications

Input Voltage Range	230VAC +/-15%, 45 to 65Hz full load
Battery Type	Lithium Ion, Lead Acid
Efficiency	>90%
Indication	LED
Power Factor	>0.99
CAN Bus	Isolated, CAN 2.0B
Charging Profile	CC-CV/ Customizable
Operating Temperature	5°C to 50°C
Place of installation	Off-board(IP20)/ On-board (IP66)
Certification	Available on request

### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle
- CAN communication
- Charging profile customization
- RCD

### Protection

- Reverse Battery protection
- Short circuit protection
- Over Current protection
- Earth Leakage protection
- Input under/over voltage protection
- Output under/ over voltage protection
- Over temperature protection
- CAN time out

 Power 1kW

 Ingress Protection IP20/ IP 66

### Product Variants

S No.	Voltage	Current
1	24V	15A
2	48V	15A
3	60V	10A
4	72V	8A






### Dimensions

- IP 20- 280mm X 135mm X 110mm
- IP 66- 250mmX125mmX100mm

### Weight

- IP 20- 3.5 kg
- IP 66- 3.0 kg

### Applications

-  2-Wheelers
-  Battery Operated Pallet Trucks
-  Stackers
-  Floor Cleaners
-  Lawn Mower



## 1200 WATTS (1.2kW) CHARGER

Model No - AS 1200

### Technical Specifications


Input Voltage Range	230VAC +/-15%, 45 to 65Hz full load
Battery Type	Lithium Ion, Lead Acid
Efficiency	>90%
Indication	LED
Power Factor	>0.99
CAN Bus	Isolated, CAN 2.0B
Charging Profile	CC-CV/ Customizable
Operating Temperature	5°C to 50°C
Place of installation	Off-board
Certification	Available on request

### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle
- Wake-up function
- CAN communication
- RCD
- Charging profile customization

### Protection

- Reverse Battery protection
- Short circuit protection
- Over Current protection
- Earth Leakage protection
- Input under/over voltage protection
- Output under/ over voltage protection
- Over temperature protection
- CAN time out

 **Power** 1.2kW

 **Ingress Protection** IP20

### Product Variants

S No.	Voltage	Current
1	24V	20A to 40A
2	48V	20A
3	60V	15A
4	72V	10A








### Dimensions

- 240mm X 140mm X 100mm

### Weight

- 4.0 kg

### Applications

-  2-Wheelers
-  3-Wheeler Passenger
-  3-Wheeler Cargo
-  Battery Operated Pallet Trucks
-  Stackers
-  Floor Cleaners
-  Lawn Mower



## 1600 WATTS (1.6kW) CHARGER

Model No - AS 1600

Input Voltage Range	230VAC +/-15%, 45 to 65Hz full load
Battery Type	Lithium Ion, Lead Acid
Efficiency	>90%
Indication	LED
Power Factor	>0.99
CAN Bus	Isolated, CAN 2.0B
Charging Profile	CC-CV/ Customizable
Operating Temperature	5°C to 50°C
Place of installation	Off-board
Certification	Available on request

 **Power** 1.6kW

 **Ingress Protection** IP20

### Product Variants

S No.	Voltage	Current
1	24V	20A to 45A
2	48V	20A, 25A
3	60V	20A
4	72V	15A








### Dimensions

- 290mm X 186mm X 115mm

### Weight

- 4.5 kg

### Applications

-  2-Wheelers
-  3-Wheeler Passenger
-  3-Wheeler Cargo
-  Battery Operated Pallet Trucks
-  Stackers
-  Floor Cleaners
-  Lawn Mower

### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle
- Wake-up function
- CAN communication
- RCD
- Charging profile customization

### Protection

- Reverse Battery protection
- Short circuit protection
- Over Current protection
- Earth Leakage protection
- Input under/over voltage protection
- Output under/ over voltage protection
- Over temperature protection
- CAN time out



## 2000 WATTS (2kW) CHARGER

Model No - AS 2000

### Technical Specifications


Input Voltage Range	230VAC +/-15%, 45 to 65Hz full load
Battery Type	Lithium Ion, Lead Acid
Efficiency	>90%
Indication	LED
Power Factor	>0.99
CAN Bus	Isolated, CAN 2.0B
Charging Profile	CC-CV/ Customizable
Operating Temperature	5°C to 50°C
Place of installation	Off-board
Certification	Available on request

### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle
- Wake-up function
- CAN communication
- RCD
- Charging profile customization

### Protection

- Reverse Battery protection
- Short circuit protection
- Over Current protection
- Earth Leakage protection
- Input under/over voltage protection
- Output under/ over voltage protection
- Over temperature protection
- CAN time out

 **Power** 2kW

 **Ingress Protection** IP20

### Product Variants

S No.	Voltage	Current
1	48V	30A
2	60V	25A
3	72V	20A








### Dimensions

- 270mm X 155mm X 100mm

### Weight

- 5 kg

### Applications

-  2-Wheelers
-  3-Wheeler Passenger
-  3-Wheeler Cargo
-  Battery Operated Pallet Trucks
-  Stackers
-  Floor Cleaners
-  Lawn Mower



## 2700 WATTS (2.7kW) CHARGER

Model No - AS 2700

### Technical Specifications

Input Voltage Range	230VAC +/-15%, 45 to 65Hz full load
Battery Type	Lithium Ion, Lead Acid
Efficiency	>90%
Indication	LED
Power Factor	>0.99
CAN Bus	Isolated, CAN 2.0B
Charging Profile	CC-CV/ Customizable
Operating Temperature	5°C to 50°C
Place of installation	Off-board
Certification	Available on request

### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle
- Wake-up function
- CAN communication
- RCD
- Charging profile customization

### Protection

- Reverse Battery protection
- Short circuit protection
- Over Current protection
- Earth Leakage protection
- Input under/over voltage protection
- Output under/ over voltage protection
- Over temperature protection
- CAN time out



**Power** 2.7kW



**Ingress Protection** IP20



### Product Variants

S No.	Voltage	Current
1	48V	40A
2	60V	35A
3	72V	25A



### Dimensions

- 400mm X 115mm X 150mm



### Weight

- 5 kg



### Applications



3-Wheeler Passenger



3-Wheeler Cargo



## 3300 WATTS (3.3kW) CHARGER

Model No - TS 3300

### Technical Specifications

Input Voltage Range	230VAC +/-15%, 45 to 65Hz full load
Battery Type	Lithium Ion, Lead Acid
Efficiency	>90%
Indication	LED
Power Factor	>0.99
CAN Bus	Isolated, CAN 2.0B
Charging Profile	CC-CV/ Customizable
Operating Temperature	5°C to 50°C
Place of installation	Off-board
Certification	Available on request

### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle
- Wake-up function
- CAN communication
- RCD
- Charging profile customization

### Protection

- Reverse Battery protection
- Short circuit protection
- Over Current protection
- Earth Leakage protection
- Input under/over voltage protection
- Output under/ over voltage protection
- Over temperature protection
- CAN time out

	<b>Power</b>	3.3kW
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	<b>Ingress Protection</b>	IP20
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### Product Variants

S No.	Voltage	Current
1	48V	50A
2	60V	45A
3	72V	35A
4	100V	30A


### Dimensions

- 380mm X 200mm X 120mm

### Weight

- 8.5 kg

### Applications

 3-Wheeler Passenger

 3-Wheeler Cargo





## 7500 WATTS (7.5kW) CHARGER

Model No - AS 7500

### Technical Specifications

Input Voltage Range	400VAC +/-15%, 45 to 65Hz full load
Battery Type	Lithium Ion, Lead Acid
Efficiency	>90%
Indication	LED
Power Factor	>0.99
CAN Bus	Isolated, CAN 2.0B
Charging Profile	CC-CV/ Customizable
Operating Temperature	5°C to 50°C
Place of installation	Off-board
Certification	Available on request

### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle
- Wake-up function
- CAN communication
- RCD
- Charging profile customization

### Protection

- Reverse Battery protection
- Short circuit protection
- Over Current protection
- Earth Leakage protection
- Input under/over voltage protection
- Output under/ over voltage protection
- Over temperature protection
- CAN time out

	<b>Power</b>	7.5kW
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	<b>Ingress Protection</b>	IP20 / IP54
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### Product Variants

S No.	Voltage	Current
1	48V	75A to 120A
2	72V	75A
3	80V	75A
4	100V	60A

### Dimensions

- 575mm X 435mm X 286mm

### Weight

- 35 kg

### Applications

-  E-Tractors
-  Forklifts
-  Reach Trucks
-  VNA (Very Narrow Aisle) Truck



## 10,000 WATTS (10kW) CHARGER

Model No - TS 10k



### Technical Specifications

Input Voltage Range	400VAC +/-10%, 45 to 65Hz full load
Battery Type	Lithium Ion, Lead Acid
Efficiency	>90%
Indication	LED/LCD
Power Factor	>0.99
CAN Bus	Isolated, CAN 2.0B
Charging Profile	CC-CV/ Customizable
Operating Temperature	5°C to 50°C
Place of installation	Off-board
Certification	Available on request

### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle
- Wake-up function
- CAN communication
- RCD
- Charging profile customization

### Protection

- Reverse Battery protection
- Short circuit protection
- Over Current protection
- Earth Leakage protection
- Input under/over voltage protection
- Output under/ over voltage protection
- Over temperature protection
- CAN time out

 **Power** 10kW

 **Ingress Protection** IP20/IP54

### Product Variants

S No.	Voltage	Current
1	48V	90A to 150A
2	72V	90A to 105A
3	80V	90A to 105A

### Dimensions

- IP 20- 840mm X 500mm X 120mm
- IP 54- 1050mm X 550mm X 200mm

### Weight

- IP 20- 35kg
- IP 54- 45 kg

### Applications

-  E-Tractors
-  Forklifts
-  Reach Trucks
-  VNA (Very Narrow Aisle) Truck



## 20,000 WATTS (20kW) CHARGER

Model No - TS 20k



### Technical Specifications

Input Voltage Range	400VAC +/-10%, 45 to 65Hz full load
Battery Type	Lithium Ion, Lead Acid
Efficiency	>90%
Indication	LED/LCD
Power Factor	>0.99
CAN Bus	Isolated, CAN 2.0B
Charging Profile	CC-CV/ Customizable
Operating Temperature	5°C to 50°C
Place of installation	Off-board
Certification	Available on request

### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle
- Wake-up function
- CAN communication
- RCD
- Charging profile customization

### Protection

- Reverse Battery protection
- Short circuit protection
- Over Current protection
- Earth Leakage protection
- Input under/over voltage protection
- Output under/ over voltage protection
- Over temperature protection
- CAN time out

	<b>Power</b>	20kW
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	<b>Ingress Protection</b>	IP54
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Product Variants		
S No.	Voltage	Current
1	48V	200A to 300A
2	72V	150A to 210A
3	80V	150A to 210A

Dimensions	
• IP 20-	475mm X 330mm X 920mm
• IP 54-	1100mm X 550mm X 380mm

Weight	
• IP 20-	80kg
• IP 54-	95kg

Applications	
	E-Tractors
	Forklifts
	Reach Trucks
	VNA (Very Narrow Aisle) Truck



## MP1

### Single Phase Traction Battery Charger

#### Technical Specifications

Input Voltage Range	180-265VAC, 50/60Hz
Battery Type	Lead Acid
Recommended Battery Size	50Ah to 350Ah
Efficiency	Approximately 80%
Indication	LED/ LCD
Power Factor	0.80
Charging Profile	CC-CV/ Customizable
Operating Temperature	0°C to 45°C
Place of installation	Internal
Certification	Available on request

#### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle

#### Protection

- Smart Charge' features to extend battery life
- AUTO-CUT-OFF when battery is 100 % Charged.
- LCD display to display charging voltage, charging current, charge time and Ampere-Hours put back
- No Overcharging/Undercharging.
- EQUALISE Facility, Temperature Compensation.
- Electronic protection against reverse battery, over current & short circuit.
- Accepts wide input voltage variation.
- Front panel LEDs for displaying charging and fault status.

 **Ingress Protection** IP20

#### Product Variants

S No.	Voltage	Current
1	12V	08A to 65A
2	24V	05A to 70A
3	30V	15A to 70A
4	36V	15A to 70A
5	48V	10A to 50A

#### Dimensions

S No.	Product Variant	Dimensions
1	12V, 08A to 25A 24V, 05A to 10A	375mm X 300mm X 250mm
2	12V, 30A to 65A 24V, 15A to 70A 30V, 15A to 50A 36V, 15A to 40A 48V, 10A to 40A	250mm X 450mm X 280mm
3	30V, 55A to 70A 36V, 45A to 70A 48V, 45A to 50A	300mm X 500mm X 310mm

#### Applications

-  Battery Operated Pallet Trucks
-  Stackers
-  Floor Cleaners



## MP3

### Three Phase Traction Battery Charger

#### Technical Specifications

Input Voltage Range	400VAC +/-10%, 50/60Hz
Battery Type	Lead Acid
Recommended Battery Size	222Ah to 1200Ah
Efficiency	Approximately 80%
Indication	LED/ LCD
Power Factor	0.70
Charging Profile	CC-CV/ Customizable
Operating Temperature	0°C to 45°C
Place of installation	Internal
Certification	Available on request

#### Customization

- Input cable length/ connector
- Output cable length/ connector
- Outer casing/enclosure and handle

#### Protection

- Smart Charge' features to extend battery life
- AUTO-CUT-OFF when battery is 100 % Charged.
- LCD display to display charging voltage, charging current, charge time and Ampere-Hours put back
- No Overcharging/Undercharging.
- EQUALISE Facility, Temperature Compensation.
- Electronic protection against reverse battery, over current & short circuit.
- Accepts wide input voltage variation.
- Front panel LEDs for displaying charging and fault status.



**Ingress Protection** IP20



#### Product Variants

S No.	Voltage	Current
1	24V	40A to 160A
2	36V	40A to 200A
3	48V	40A to 220A
4	72V	40A to 150A
5	80V	50A to 150A
6	110V	50A to 110A



#### Dimensions

S No.	Product Variant	Dimensions
1	24V, 40A to 130A 36V, 40A to 120A 48V, 40A to 120A 72V, 40A to 80 A 80V, 50A to 80A	550mm X 500mm X 675mm
2	24V, 140A to 160A 36V, 130A to 260A 48V, 130A to 220A 72V, 90A to 150A 80V, 85A to 150A 110V, 50A to 110A	625mm X 525mm X 800mm



#### Applications



Forklifts



Reach Trucks



VNA (Very Narrow Aisle) Truck



## DFCB

### Dual Float Cum Boost Charger

#### Technical Specifications

Input Voltage Range	400 VAC +/-10%, 3Phase, 50Hz/ 60Hz
Battery Type	Lead Acid Batteries, Nickel Cadmium Batteries
DC voltage regulation	+/- 1% at 100 % load and specified AC voltage tolerance(In Float Mode)
Current variation	5% to 100% of rated current (In Boost Mode )
Current limit	105% Rated current (In Float Mode )
DC current Regulation	±2%(In Boost Mode )
Rectifier Set	Half Controlled / Full Controlled Bridge with 3 Pulse /6 Pulse.
Output ripple	Less than or equal to 1% RMS Without battery Connected.
Efficiency	80 to 93% depending Nominal Voltage and power rating
Indication	LED/ LCD, Lamps (AC Main ON , DC ON)
Standard Instruments	Output :DC V , DC A, Battery : DC V , DC A , Ac I/P : ACV ,ACA
Protection	Protection Fuses, Soft Start Feature, Electronic Current Limit , Phase Sequence Reversal and phase Failure Protection
Alarms	Mains fail, Rectifier Fuse Blown, Filter Capacitor Fuse Blown, Dc Over voltage, Dc Under voltage, Earth Fault For Floating Dc system.
Operating Temperature	0°C to 50°C ≤95 % humidity (Non condensing) ≤ 1000m above M.S.L
Ventilation	Natural air cooled/ Forced air cooled
Certification	Available on request

#### Product Variants

BATTERY	DC OUTPUT VOLTAGE	
	FLOAT MODE	BOOST MODE
Flooded Lead Acid	2.15VPC to 2.2VPC	2.65VPC to 2.75VPC
VRLA	2.15VPC to 2.25VPC	2.3VPC to 2.35VPC
Nickel Cadmium	1.4VPC to 1.42VPC	1.65VPC to 1.7VPC

**DC OUTPUT CURRENT** 5A-250A (Customizable)

**Ingress Protection** IP20/ IP 31/ IP 42

#### Applications

DC UPS in various industries where they need continuous uninterrupted DC Power Supply.



## FCB

### Float Cum Boost Charger

#### Technical Specifications

Input Voltage Range	400 VAC +/-10%, 3Phase, 50Hz/ 60Hz
Battery Type	Lead Acid Batteries, Nickel Cadmium Batteries
DC voltage regulation	+/- 1% at 100 % load and specified AC voltage tolerance(In Float Mode)
Current variation	5% to 100% of rated current (In Boost Mode )
Current limit	105% Rated current (In Float Mode )
DC current Regulation	±2%(In Boost Mode )
Rectifier Set	Half Controlled / Full Controlled Bridge with 3 Pulse /6 Pulse.
Output ripple	Less than or equal to 1% RMS Without battery Connected.
Efficiency	80 to 93% depending Nominal Voltage and power rating
Indication	LED/ LCD, Lamps (AC Main ON , DC ON)
Standard Instruments	Output :DC V, DC A, Battery : DC V, DC A, Ac I/P : ACV ,ACA
Protection	Protection Fuses, Soft Start Feature, Electronic Current Limit, Phase Sequence Reversal and phase Failure Protection
Alarms	Mains fail, Rectifier Fuse Blown, Filter Capacitor Fuse Blown, Dc Overvoltage, Dc Under voltage, Earth Fault For Floating Dc system.
Operating Temperature	0°C to 50°C ≤95 % humidity (Non condensing) ≤ 1000m above M.S.L
Ventilation	Natural air cooled/ Forced air cooled
Certification	Available on request

#### Product Variants

BATTERY	DC OUTPUT VOLTAGE	
	FLOAT MODE	BOOST MODE
Flooded Lead Acid	2.15VPC to 2.2VPC	2.65VPC to 2.75VPC
VRLA	2.15VPC to 2.25VPC	2.3VPC to 2.35VPC
Nickel Cadmium	1.4VPC to 1.42VPC	1.65VPC to 1.7VPC

**DC OUTPUT CURRENT** 5A-250A (Customizable)

**Ingress Protection** IP20/ IP 31/ IP 42

#### Applications

DC UPS in various industries where they need continuous uninterrupted DC Power Supply.

## Our Esteemed Clients



📍 Office : #2, Street No 3, 12 Biswa, Behind Bharat Petrol Pump, Sector-5, Sheetla Mata Mandir Road, Gurugram-122001 Haryana

✉️ [Globelectricvehiclescompany@gmail.com](mailto:Globelectricvehiclescompany@gmail.com)

🌐 [www.globelectricvehiclescompany.com](http://www.globelectricvehiclescompany.com)