BUILD WITH D CONTROL

Debtronics

Debtronics

Your Partner in

Excellence for Solar Systems, Weighing Systems & Industrial Automation.

www.debtronics.co.in

Company Profile

In the year 1997, three friends, all Engineers, who were engaged in different sectors of the electronics industry, got together in Kolkata and formed a firm and named it “DEBTRONICS – Build with Control.” Their aim was to design, develop and manufacture the best, the latest and cost effective yet the most reliable and user friendly systems and gadgets for the Indian market.
The initial endeavours of Debtronics were in the field of manufacturing balance of Systems for Solar Photovoltaics.

We are the O.E.M. for Exide Industries Limited. We developed and produced the very best quality Solar Luminaries and Charge Controllers – the Battery Health Monitor, Solar Table / Pedestal / Wall Fans. We moved along with time to develop Controller based PWM and MPPT Charge Controllers ranging from 12V to 192 V, LED Luminaries, Solar Pump Systems and Controllers & Power Conditioning Units, to name a few.

As of now, our firm has multifarious activities in different fields, namely:

CONTROL PANEL DIVISION: Deals with Control Panels for various customers as per their needs, notably among them Off – Road Concrete Mixing Control Panels with and without memory and printing facility; they are either microcontroller based Indicator controlled or with PLC & HMI; Fly Ash Bricks & Pavers’ Block Machine Control Panel; TMT Bar Bending Machine Controls, PM Hoist, Tower Hoist, Monkey Hoist Control Panels etc. Data acquisition and data storage of weighments and processes, data sharing through SMS and / or e-mail etc.

WEIGHING DIVISION: Deals with total weighing solutions from Jewellery Scales to Weigh Bridges, Induction Furnace Weighing systems, E.O.T. Crane Weighing System, Hopper Weighing, Silo Weighing etc providing automation and instrumentation solutions to the Industry, as per their needs. Data acquisition and data storage of weighments, data sharing through SMS and / or e-mail etc.

NEW & RENEWABLE ENERGY DIVISION: Deals with Solar, Wind Energy Solutions & Solar Pump Controllers, Solar Inverters & E Vehicle Chargers (Newest Introduction).

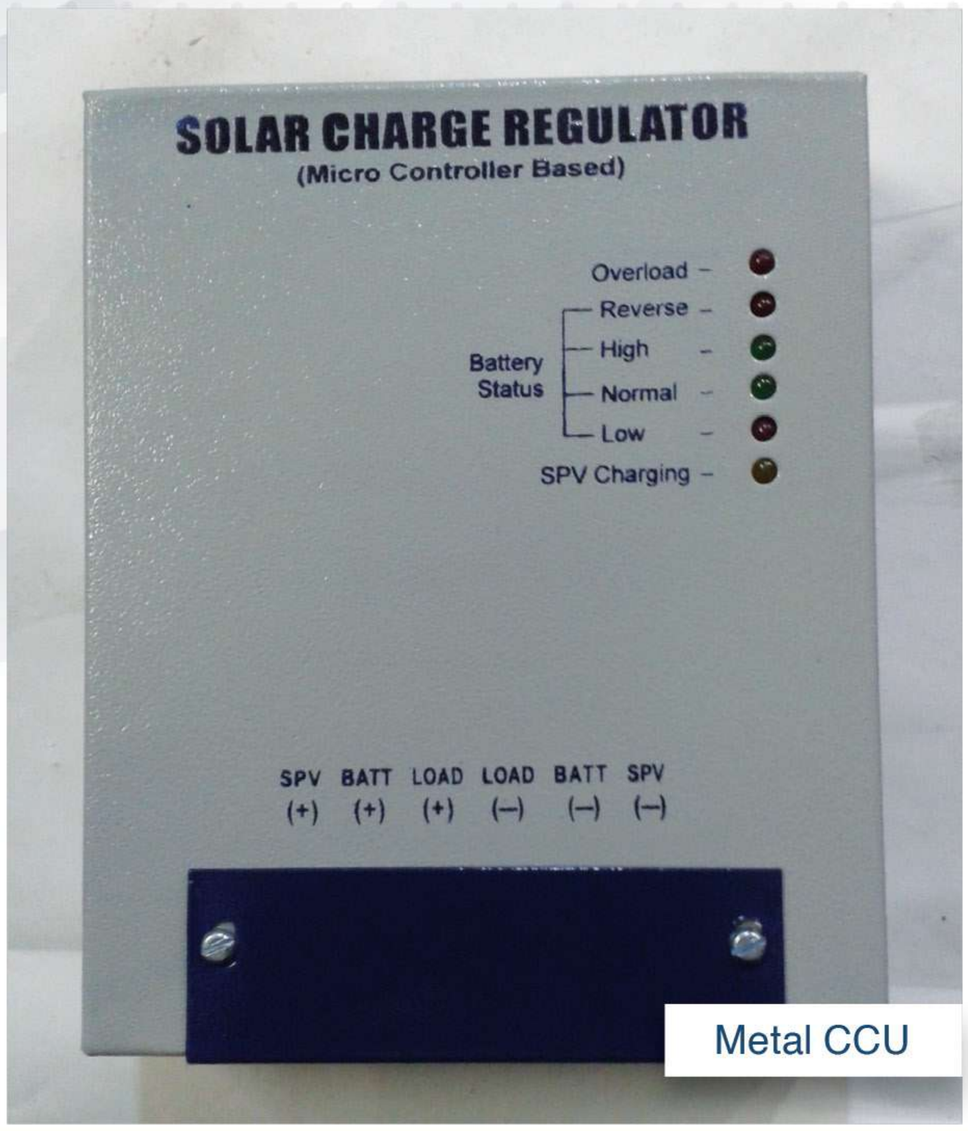
SOFTWARE & AUTOMATION DIVISION: Deals with software development and turnkey projects as per customer needs with Micro-Controllers or PLC, SCADA.

Also, all our Weighing, Solar & Control Panel Softwares are developed indigenously and in – house.

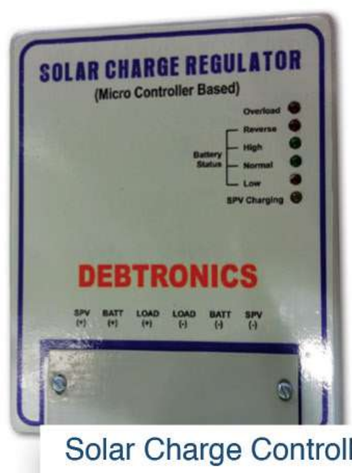
Charge Controller & E-Rickshaw Battery Charger

It is a sophisticated & intelligent Solar Charge Controller family for low cost applications, ranging from 12V to 120V DC.
The electronic circuit is equipped with a microcontroller that provides high-efficiency charging technology together with a number of outstanding status display, warning and safety functions.

The temperature-compensated PWM charging method is adjustable to batteries.
The Charge Controller also allows voltage controlled low voltage disconnect function.
The battery status is LED, and there are over-all three annunciating LEDs.

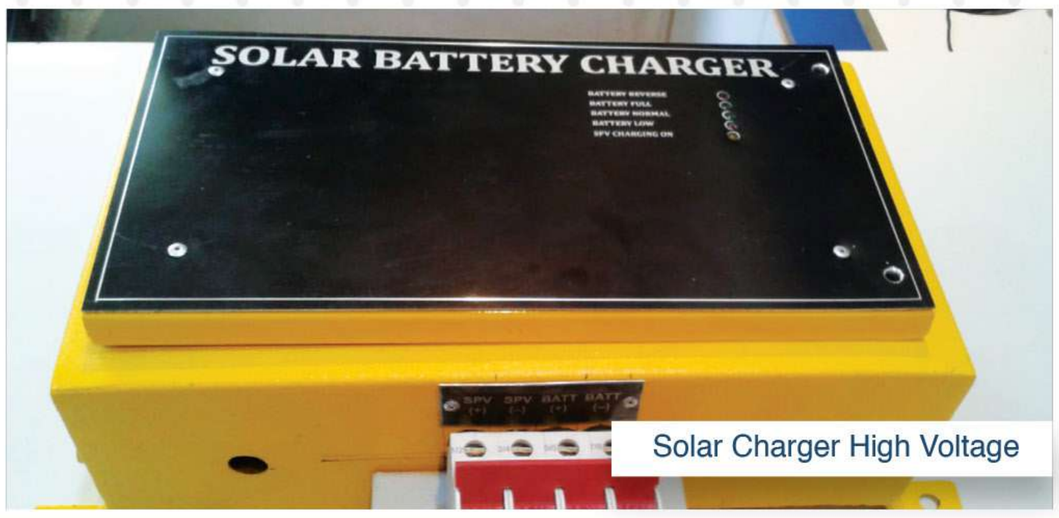


Metal CCU



Solar Charge Controller

Traction Battery Charger



Solar Charger High Voltage

Hanging Crane Scales

Salient Features:

- Easy portability
- Rugged Housing
- Rechargeable Battery
- Remote Control Operation
- Convenient rotating design
- Displays Kg units of measure
- AC adaptor provided for battery charging
- Ultra – Bright LED Display, Large View Area
- 150% Safety Overload (300% Ultimate Overload)
- Remote Control Operation from up to 30m (100 ft)

Crane Scales

Crane Scales

E.O.T. Crane Weighing

We offer Crane Weighing & Protection Systems. Crane Weighing and Protection Systems are used in EOT cranes. These days all divisions in manufacturing plant are treated as profit centers, hence it becomes necessary to know how much the production of particular division is? EOT crane weighing is done with desired capacity in type Load cells. The Load cells generate mV output proportional to weight applied on it. The mV output from load cells is interfaced with microprocessor based weight indicator / PLC to process it to display the weight and large figure display interfacing. It is used in industries like Steel, Ferro Alloys, Foundry, Ports, etc.


E O T Crane


E O T Crane

Features:

- Weight Indicator with 24 bit internal resolution
- High intensity large figure display of 100/200mm is provided for better visibility
- Optional facility for wireless transmission of weight display

Tundish Weighing

Tundish weighing system designed for continuous casting operation of billet or flat plate, controls the level of molten steel; they also monitor the integrity of the moulds themselves. The tundish weighing system is used in continuous casting of a billet and transmits weight data from load cells of tundish platform. The transmission can be by 4/20mA /Wireless/ RS485/field bus to master PLC. High temperature load cells (400F) and multiple A-D converter instrumentation based systems provide excellent precision without reducing the sample rate.


Tundish weighing system

This allows greatly increased automation of the billet casting process. With better control over the level in the ladle placed on tundish bath improves the quality of the strand surface, more consistent steel quality, less variation in temperature and improved water cooling economy. Better control over levels also results in better safety for men and machines. Custom designed installations can be provided for specific applications like wireless transmission of weight data, large figure displays, cumulative weight of molten metal, rate of discharge etc.


Tundish weighing system

Ladle Car / Scrap Car / Turret Weighing

We supply a wide range of weighing systems which are strain gauge load cell based electronic ladle car, scrap car, turret, tundish weighing system for Steel Melting Shop. Time tested robust design of mechanical structure & electronics can be made parallel with other weighing system. We can provide wired / wireless communication to store data in PC. These cater to the needs of steel industry.

Features:

- Strain gauge load cells of compression / double ended shear beams type
- Load cells in stainless steel (IP68) are used
- Load cells available in D1 & C3 class, suitable temperature grade
- Load cell mounting accessories are available in MS nickel plated with constrainer assemblies, shock observers etc.
- Weight transmission by wireless method available

Ladle Car


Ladle Car

Inverter

Pure Sine Wave Inverter (Solar – Hybrid)

- SMD based PCB boards offers higher efficiency than other conventional boards and totally eliminate chances of human errors during manufacturing
- In – built Thermal Management
- Smart Front Panel LCD Display indicating all the status of the inverter, like : AC Mains Input Voltage / AC Output Voltage / Load in Percentage / Battery Voltage / Flat or Tubular or Lithium – Ion Battery Mode / Inverter Mode On or Off / Fuse Blown or MCB Trip / Over Temperature / Battery Low or Trip / Overload / Short Circuit
- Discrete LED display with audible alarms
- Very high performance at very low cost
- Compatible for Flat / Tubular / Lithium Ion Batteries – selectable

Applications:

- TV, Fan, CFL, Tube Lights, Computers, Printers, Projectors, Mixer Grinders, Air Coolers, Fridge, Induction Oven, Iron Box, RO Systems, Water Pumps (0.5 HP for 12V / 1100 VA & 1.0 HP for 24V / 2200 VA), Audio Systems

Ranges Available:

- 12 VOLT – 1100 VA Model : SAS 1100
- 12 VOLT – 1400 VA Model : SAS 1400
- 24 VOLT – 2200 VA Model : SAS 2200
- 24 VOLT – 2700 VA Model : SAS 2700

Solar Inverter:

- Also available upto 72V 5KVA

Technical Specifications:

Input Voltage Range (Inverter Model)	100 to 280V AC + 5 V AC
Change Over Time	< 3 ms in Inverter Mode
Minimum Charging Current	10 A + 1 A
Maximum Charging Current	20A + 1A
Boost Charging Voltage	14.4 + 0.2 V DC
Float Charging Voltage	13.7 + 0.2 V DC
Output Voltage at no Load	220 V AC + 7 V AC
Output Frequency	50 Hz + 0.5 Hz
Output Waveform	100% PURE SINE WAVE
Battery Low Alarm	10.6 + 0.2 V DC
Battery Low Protection	10.4 + 0.2 V DC


Solar Panel


Inverter-Battery

24KV Inverter

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