Power Control Application Overview
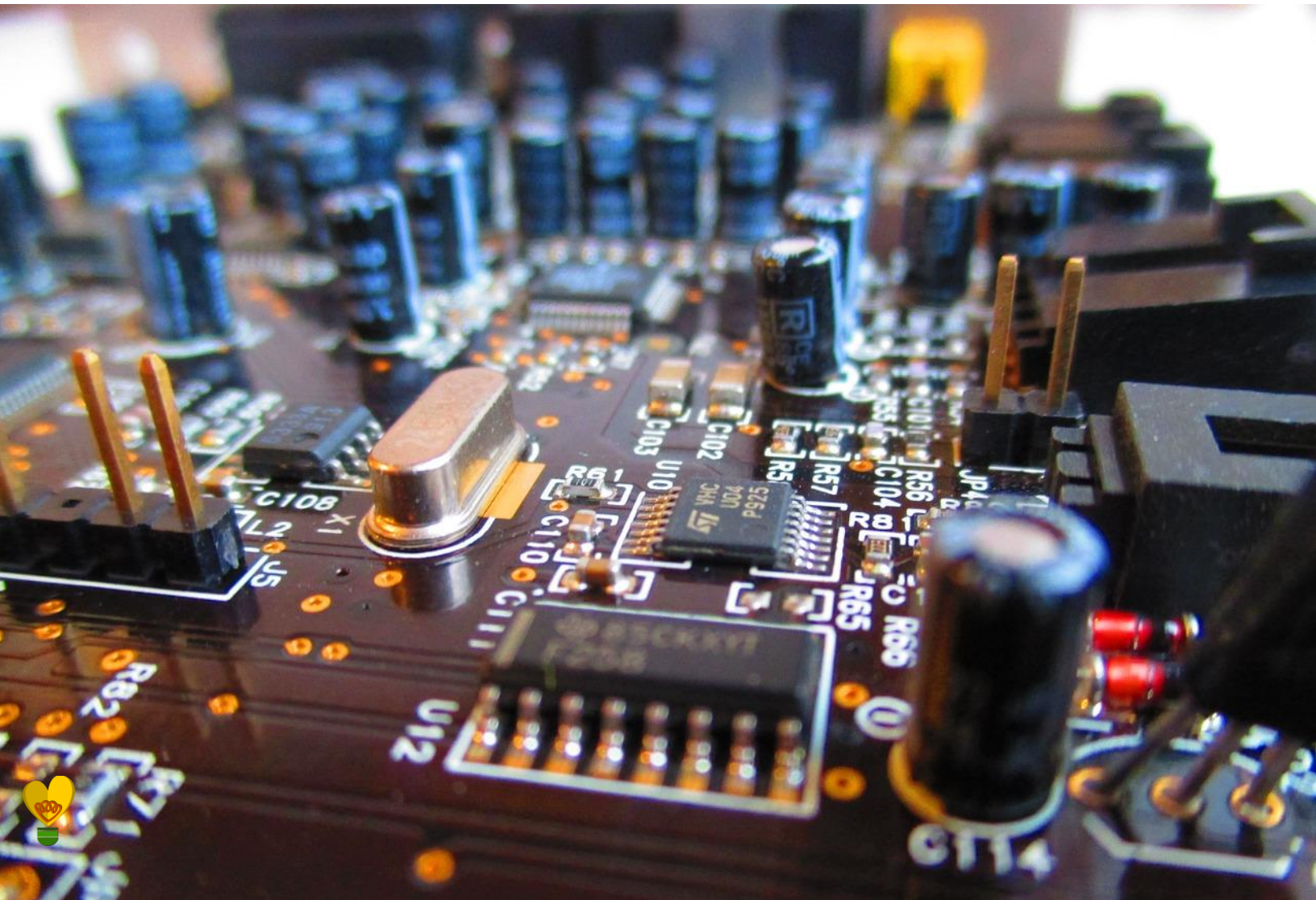
With TrackSo Solar Remote Monitoring & Analytics

Power Control

Features of Power Control Device:

- **Smart Control:** The device will ensure that the inverter ramps down the solar production smartly, by continuously analyzing the grid meter reading.
- **Ensure Zero Protection**: Unlike reverse relay protection, our device ensures that the inverter doesn't trip and minimum or no reverse feed-in is sent back to the grid.
- **Remote Monitoring:** These controllers can simultaneously act as a Data Logger and send data on TrackSo Solar Remote Monitoring platform.

Compatible with Multiple Inverter Brands

Compatible with a wide range of inverters allowing Active Power Control via Modbus RS485 or Modbus TCP/IP. Following are few of the compatible brands.

IoT Data Loggers for Power Control Applications

All the Data loggers can be connected with more than 100 brands of solar PV inverters, energy meters, weather monitoring stations, variable frequency drives [VFDs], string monitoring systems and all MODBUS enabled sensors.

- Easy to install, economical to maintain and upgrade.
- Support all major brands of inverter with Modbus RTU RS-485 / TCP-IP
- Possible to connect different brands of inverters within a single plant.
- Stores all data to the on-board memory during internet unavailability.

Links to Datasheet of loggers compatible for Power Control Application with TrackSo Solar Remote Monitoring & Analytics platform.

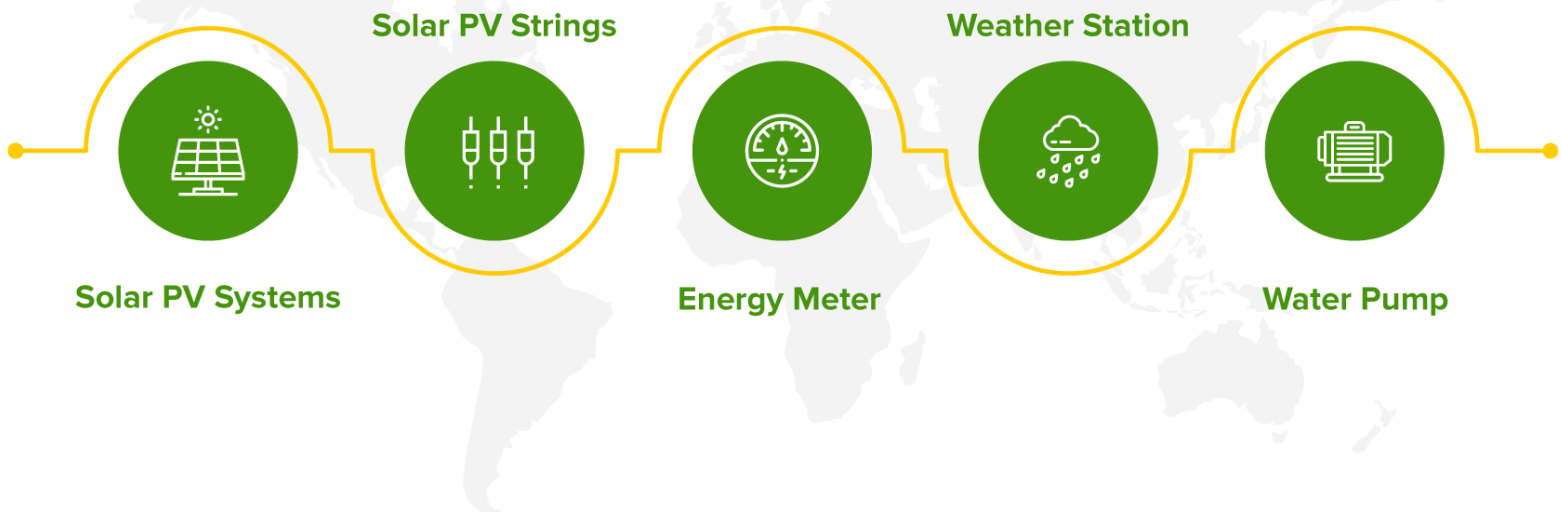| Brand	Model No.	No. of slaves compatible with TrackSo platform monitoring	Internet Connectivity	Datasheet
Wattmon	Mega	Up to 12 * Modbus RTU/TCP Slave (Max 500 Params)	LAN, USB Dongle (4G)	Download
Wattmon	Mini3-4G	Up to 8 Modbus RTU/TCP Slave (Max 500 Params)	LAN, 4G Sim	Download
Wattmon	Mini3	Up to 12* Modbus RTU/TCP Slave (Max 500 Params)	LAN, USB Dongle (4G)	Download
Webdyn	WebdynSunPM	Up to 32 Modbus RTU/TCP Slaves (Unlimited Params)	LAN, 2G/3G Sim	Download

Retrofit for all
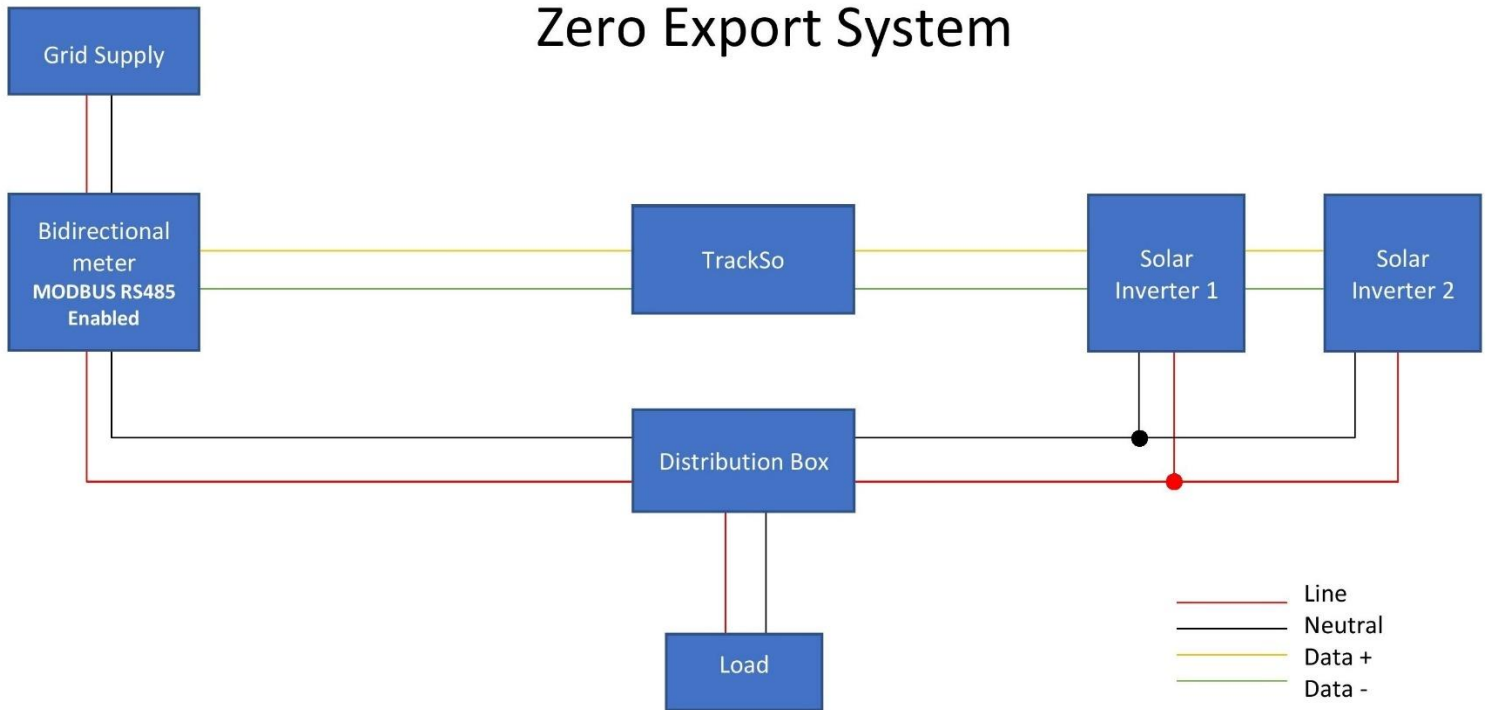**MODBUS networks**

Safe Data Storage
On-board data storage
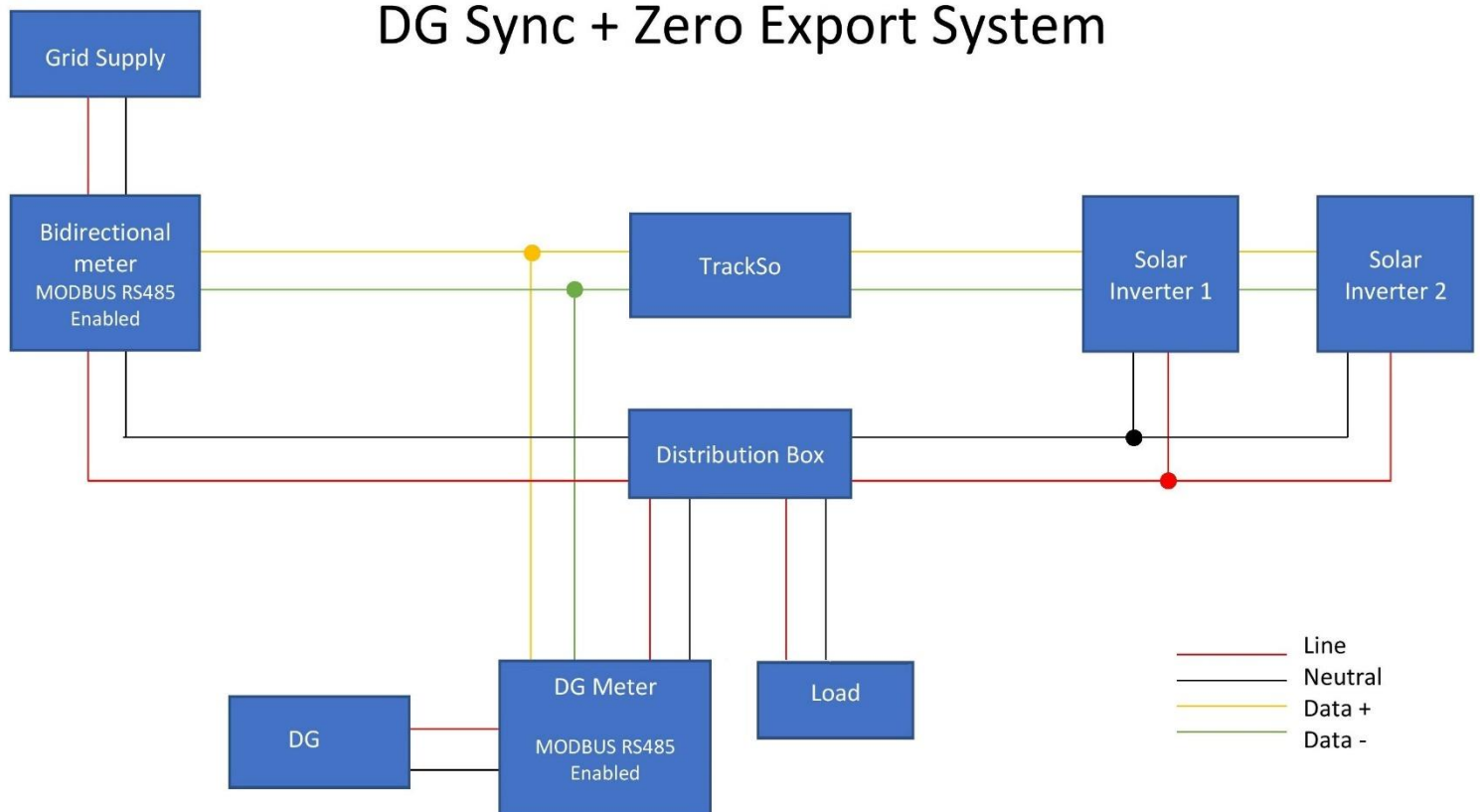
Delivered with
IP-65 Enclosure

Connects all assets

Solar PV Strings

Weather Station

Solar PV Systems

Energy Meter

Water Pump

E: support@trackso.in

Zero Export System

Grid Supply		
Bidirectional meter **MODBUS RS485 Enabled**	TrackSo	Solar Inverter 1 — Solar Inverter 2
	Distribution Box	
	Load	

Legend:
- Line
- Neutral
- Data +
- Data -

DG Sync + Zero Export System

Grid Supply		
Bidirectional meter MODBUS RS485 Enabled	TrackSo	Solar Inverter 1 — Solar Inverter 2
	Distribution Box	
DG — DG Meter MODBUS RS485 Enabled	Load	

Legend:
- Line
- Neutral
- Data +
- Data -

Compatible Bi-Directional Energy Meters Power Control: Zero Export Application

Following is a list of recommended energy meters

Brand		Model No's
	Secure	Elite 440-445 to 448 Elite 307
	Selec	MFM384-R-C MRJ385-G-PNW
	L&T	WL4430 WL5000 WL5010
	Schneider	Conzerv EM6400NG Conserv EM 6400 PowerLogic EM7280
	Rishabh	Rish Master 3430, EM 1320, EM 1330, EM 1340, LM 1360
	Eltrac	MFM- ET4021
	Eastron	SDM630

All the Power Control devices mentioned in this document are compatible with Bi-directional meters having
- Modbus RTU-RS485 or Modbus TCP/IP communication.
- Following Modbus parameters- Total AC Active Power, Active Power Phase A, B, C and Power Factor
- In case the meter you are selecting is not available in above list, then kindly email on sales@trackso.in with the meter model no.

E: support@trackso.in

FREE SPIRITS GREEN LABS PVT. LTD.

Sales: sales@trackso.in , Support: support@trackso.in

7000+

UNITS MONITORED Inverters, Sensors, Meters, Water Pumps

3500+

SOLAR SITES Rooftop & Commercial, Solar Water Pumps, Zero Export systems

Monitoring Sites