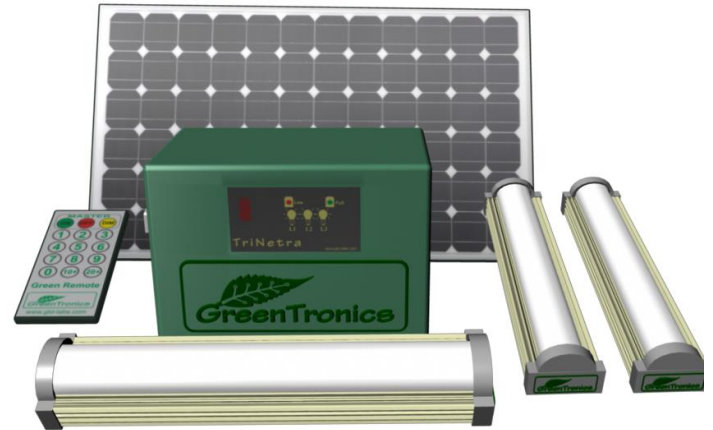


TRINETRA: Remote Solar LED Lighting System

TriNetra is a solar powered 3 light lighting solution featuring “remote control” for convenience. iDCLDC – digital control board implements unique “Solar & Grid Hybrid” battery charging algorithm along with protection strategy for LED & battery. It comes bundled complete with solar panel, metal enclosure and bright LED lights.



Technical Information

Control	Digital MCU
Light	3 X 3W to 18W LED tube (50000+ Hours service life)
Battery	SMF/Tubular
Panel	Poly-Crystalline (MNRE aprd)
Charging	Hybrid , MPPT, multi-stage
Grid Charger	Integrated true hybrid

Indications

Battery	Low / Empty
	Charging / Full

Protections

Battery	Under / Over voltage
Light	Short / Open Circuit

IESA Award Winner (Made in India)

Advantages

- ✓ Unique hybrid charging
- ✓ Remote control for convenience
- ✓ Bright, well spread, safe LED light
- ✓ 4 Light dimming levels
- ✓ Eco-friendly, Easy to install and use
- ✓ Portable and Robust
- ✓ Long run hour
- ✓ Life time service warranty*
- ✓ Charge phones and other USB devices
- ✓ Long battery life

* Transportation and failed part cost to be borne by customer

Application Area

Hospitals /
Pharmacy



Homes



Tea Stalls



Hostels



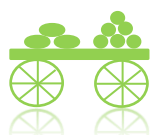
Schools /
Colleges



Library



Hawkers



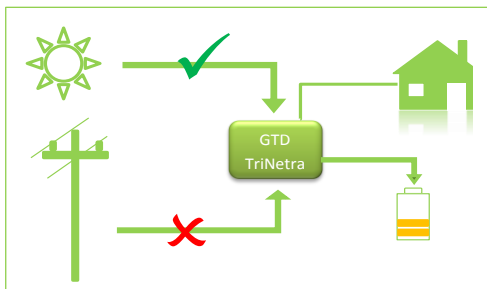
Variants Table

Kit Contents	Ordering Information	Portable		External Battery		
		GTR-12-07-038	GTR-12-12-075	GTR-12-15-075	GTR-12-30-075	GTR-12-40-150
Battery		7.5Ah:SMF	12Ah:SMF	15Ah:TB	30Ah:TB	40Ah:TB
LED Tube - 1		3W	3W	6W	9W	12W
LED Tube - 2		3W	3W	3W	6W	12W
LED Tube - 3		-	3W	3W	3W	6W
Remote		1 Remote	1 Remote	1 Remote	1 Remote	1 Remote
Wiring Kit		3 x 3 x 7mts	3 x 3 x 3 x 7mts	3 x 3 x 3 x 7mts	3 x 3 x 3 x 7mts	3 x 3 x 3 x 7mts
Solar Panel		10W	12W	20W	30W	35W
Hybrid Charger		16V-1A	16V-1A	16V-1A	16V-1.5A	16V-1.5A
Light Output (1000 Lumens=100W bulb)		630	945	1260	1890	3150
Usage Time in Hours	Charging	11	16	14	14	15
	Daily usage*	4.8	3.9	4.9	5.0	4.0
	Full Charge	8.9	10.3	11.0	11.2	10.9
	Autonomy in Days	2.2	2.6	3	2.8	2.7

* With hybrid grid charger, TriNetra's LED lights can replace existing grid powered lights and save power and money

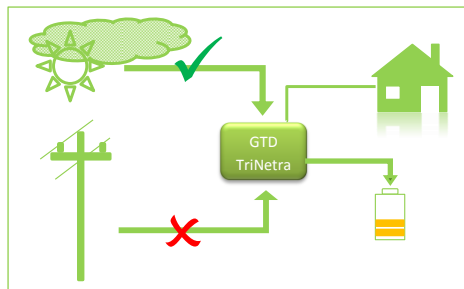
Unique Hybrid Charging

TriNetra comes integrated with true hybrid charging system, i.e. it has MPPT charger to extract maximum solar power along with in-built grid charger to work seamlessly throughout the year. It also enhances the battery life by minimizing deep discharge cycles.



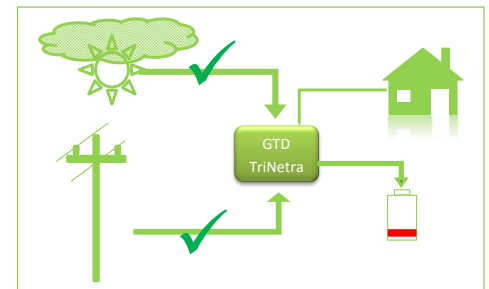
Case 1: Bright Sun light and battery NOT full

Sufficient Sunlight, Battery will be charged using only solar power, with the maximum that can be extracted under the given conditions.



Case 2: Cloudy / Rainy Days and battery NOT empty

Insufficient Sunlight Battery will be charged using only solar power, with the maximum that can be extracted under the given conditions.



Case 3: Cloudy / Rainy Days and battery Empty

Insufficient Sunlight Battery will be charged using **both** solar and grid power. **Only deficit power** is drawn from the grid. Under this condition grid is enabled until the battery is full.