

AMULYA: Priceless, Solar LED Lighting System

Amulya is a solar powered LED 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.



IESA Award Winner (Made in India)

Technical Information

Control	Digital MCU
Light	3W to 18W LED tube (50000+ Hours service life)
Battery	SMF/Tubular
Panel	Poly-Crystalline (MNRE appr)
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

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



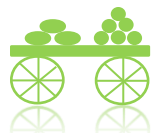
Schools /
Colleges



Library



Hawkers

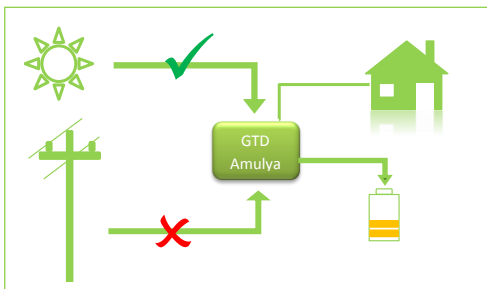


Variants Table

Kit Contents	Amulya	Portable	External Battery			
	Ordering Information	GAM-06-04-075	GAM-12-07-075	GAM-12-15-075	GAM-12-30-150	GAM-12-40-150
Battery		4.5Ah:SMF	7Ah:TB	15Ah:TB	30Ah:TB	40Ah:TB
LED Tube		3W	6W	9W	12W	18W
Wiring Kit		1x7m+1x3m	1x7m+1x3m	1x7m+1x3m	1x7m+1x3m	1x7m+1x3m
Solar Panel		3W	10W	20W	30W	40W
Hybrid Charger		-	16V-1A	16V-1A	16V-1.5A	16V-1.5A
Light Output (1000 Lumens=100W bulb)		315	630	945	1260	1890
Usage Time in Hours	Charging	11	14	13	17	17
	Daily usage*	4	5	6.5	7	6.5
	Full Charge	6	9	15	16	18
	Autonomy in Days	2	2.25	3	4	4.5

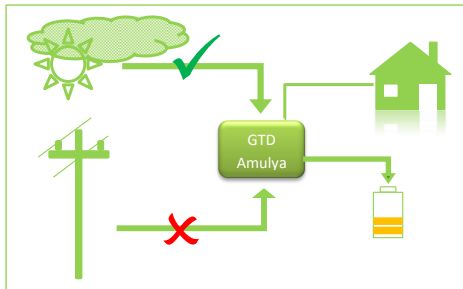
Unique Hybrid Charging

Amulya 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.



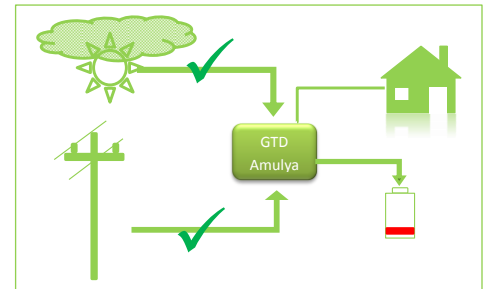
Case 1: Bright Sun light and battery NOT full

Sufficient Sunlight, Battery will be charged using only solar power. Maximum solar power will 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. Maximum solar power will 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.