

Energy Saving Lighting Series

About Us

ABTI has diversified in renewable energy sector with a strong presence in solar energy and energy saving lighting products for a wide variety of applications in industrial and domestic arena. The company caters the needs of the global market and has established channel partners in over 20 countries. The Company is today widely diversified with a strong presence in a Solar Energy, Energy Saving Lighting Systems and various other Solar Powered Solutions.

ABTI Energy Saving Street Lights



- Application - ABTI 236
 - Medium traffic roads
 - Traffic roundabouts
 - Construction sites
 - Industrial complexes
 - Railway Platforms
 - Station Lighting
 - Airports
 - Civic centers
 - Residential colonies etc.

Type	Street light
Model	ABTI 236 / 336
Lamp Type	4 pin / Single U
ABTI output (rated light)	8700 ± 5 %
Lamp wattage	36 W , 72 W, 144W
Power Consumption	72 / 108 watts ± 10%
Working voltage	90 v – 270 Volts
Nominal Voltage	230 volts Ac -50 Hz
Power Factor	≥ 0.98 with (APFC) Active Power Factor Correction
THD	≤ 10%
Light Output	Constant Light Output
Degree of Protection	IP 54
Electrical Safety	Class - 1

ABTI Energy Saving Flood Lights

Description	ABTI energy saving flood lighting series
Type	Flood Light
Model	ABTI 436
Use	Outdoor - Indoor
Lamp Type	4 pin / Single U
Lumens Output	11600 ± 5%
Lamp Wattage	36 Watts x 4
Power Consumption	144 Watts ± 12%
Working Voltage	90 Volts to 270 Volts
Nominal Voltage	230 Volts Ac - 50 Hz
Power factor	≥ 0.98 with (APFC) Active Power Factor Correction
THD	≤ 10%
Light Output	Constant Light Output
Degree of Protection	IP 55
Electrical Safety	Class - 1
Dimensions	L 610mm x W510 X D170mm

- Application - ABTI 436
 - Open areas
 - Storage Yards
 - Marshalling Yards
 - Docks & Ports
 - Building & Monuments
 - Airport aprons
 - Sport arena
 - Bridges & Fly overs
 - Hoarding & Sign boards etc.



ABTI Energy saving Indoor Lightings



- Application
 - Reception & Public Services
 - Conference Rooms
 - Hoarding & Sign Boards
 - Corridors & Staircases
 - Departmental stores & Botiuque

Type	Mirror Optic Indoor Light Fitting
Model	MR 236
Use	Indoor
Type of Lamps	Fluorescent / CFLs / T5
Lumens Output	4800 \pm 5%, 7200 / 8700
Working Voltage	90 Volts to 270 Volts
Nominal Voltage	230 Volts Ac - 50 Hz
Power factor	\geq 0.98 with (APFC) Active Power Factor Correction
THD	\leq 10%
Light Output	Constant Light Output
Degree of Protection	IP 20
Electrical Safety	Class - 1

ABTI Solar Powered Lighting Systems



The Solar Home Lighting & portable lantern, Systems offered by ABTI are of high performance, compact and easy to install. We ABTI harnesses the power from the sun to provide reliable & cost effective Lighting. The System is an excellent trouble free solution for household electrification. The light source is powered by CFLs.

- Application
 - Domestic
 - Remote Villages
 - Hilly Areas



ABTI Solar Powered Home Lighting	
Type	Solar powered Lighting System
Operation	4 to 5 hours operation
Power source	Solar power
Lamp	CFL
Autonomy	3 - 4 Days

ABTI Solar Powered Street Light Systems



Solar Street Lighting System is ideal for lighting streets, squares and cross roads located in areas that are not connected to the power grid.

The standalone solar photovoltaic street lighting system comprises of an advance light source, rechargeable battery, PV modules for charging, PWM electronics for the operation of the lamp and safe charging and discharging.

ABTI Solar Street Lighting System is available either with automatic dusk to dawn operation or with a pre-set timer.

- Application
 - Medium traffic roads
 - Traffic roundabouts
 - Construction sites
 - Industrial complexes
 - Airports
 - Civic centers
 - Residential Area etc.

ABTI Solar Powered Street Light

Type	Solar powered Street Light
Operation	12 hours operation
Auto	Fully automatic dusk to dawn operation
Power source	solar power
Lamp	11W, 22W, 44W, 66W
Lumen output	900 ± 5% 5400 ± 5%
Degree of protection	I P 54

ABTI PWM / MPPT Charge Controller

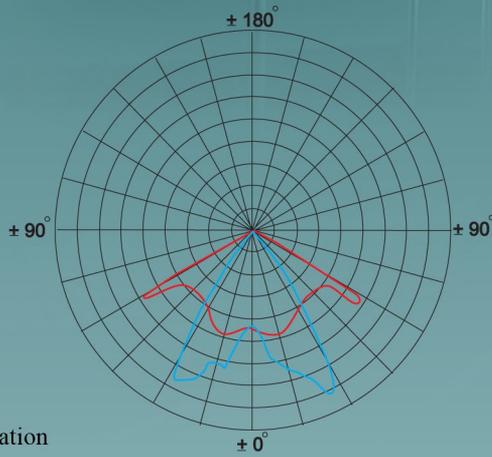


ABTI PWM /MPPT Charge Controller

Type	Solar Charge Controller
Operation	PWM /MPPT Controller
Auto	Fully automatic operation
Power source	solar power
Voltage	12v / 24v / 36v / 48v
Current	6 A to 60 A
Protection	Short circuit, Over load, Battery reverse, Temperature Compensation

The solar charge controller uses PWM charging technology, so that as the battery reaches full charge, The PWM pulses slower, gradually tapering off the charge. Low voltage disconnect protects the batteries from severe discharge by shutting off loads before the battery voltage drops to damaging levels. Temperature compensation adjusts the point voltages according to the ambient temperature.

ABTI LED Street Light systems



- Application
- Domestic
- Remote Villages
- Hilly Areas

ABTI Solid state Lighting utilizes the latest ultra High bright Power LED's combined with special optics to enhance the light output on illumination surface.

This fully integrated system combines the latest and most innovative Micro controller technologies available providing years of convenient and trouble free lighting, powered by solar photovoltaic and also by mains. ABTI Solar Street Lighting System is available with automatic dusk to dawn Operation.

ABTI Solid State lighting

Type	LED Street light
Light Source	Power LED
LED Life	≥50,000 hours
Housing Material	Die cast Aluminum Body
Diffuser Material	Toughened Glass
IP Rating	IP64, IP 61 & 54
Beam Angle (X Plane)	120 °
Beam Angle (Y Plane)	65 °
Operation	By Solar & Mains
Operating Temperature	-10 ° C to +55 ° C
Wattage	30W, 48W,60W

ABTI Solid State LED Lantern

The Solar portable lantern, Systems offered by ABTI are of high performance and compact. We ABTI harnesses the power from the sun to provide reliable & cost effective LED Lantern. The System is an excellent trouble free solution for Portable Lighting. The light source is powered by LEDs.



ABTI Solar Powered Lantern	
Type	Solar powered Lantern
Operation	15 to 20 hours operation
Power source	solar power
Lamp	Power LED
Autonomy	2 - 3 Days

- Application
- Domestic
- Remote Villages
- Hilly Areas

ABTI Solar LED Home Lighting Series



The Solar Home Lighting Systems offered by ABTI are of high performance, compact and easy to install. We provide reliable & cost effective home Lighting in LEDs. The System is an excellent trouble free solution for household electrification. The system is powered by micro controller which enhances the reliability & performance which extends the life of home lighting system powered by LEDs.

- Application
 - Domestic
 - Remote Villages
 - Industries & factory
 - Offices
 - Schools & Colleges
 - Hospitals

ABTI Solar Powered LED Home Lighting

Type	Solar powered Home Lighting
Operation	4 to 5 hours operation
Power source	Solar power
Lamp	LED
Autonomy	3 - 4 Days

ABTI Solar Powered LED Traffic Blinkers & Signages

Solar Powered LED Pedestrian Crossing Signal, 'U' Turns, Left / right Signal Blinkers

Type	Solar powered Signals
Operation	12 / 24 hours operation
Auto / Manual	Fully automatic operation
Power source	solar power
Blinking speed	30 blinks per minute
Signal colour	Blueish Green
Signal Size	300 mm dia

- Application
 - Medium traffic roads
 - Traffic roundabouts
 - Industrial complexes
 - Airports
 - Civic centers



ABTI Solar Powered LED Traffic Controlling Signal Systems



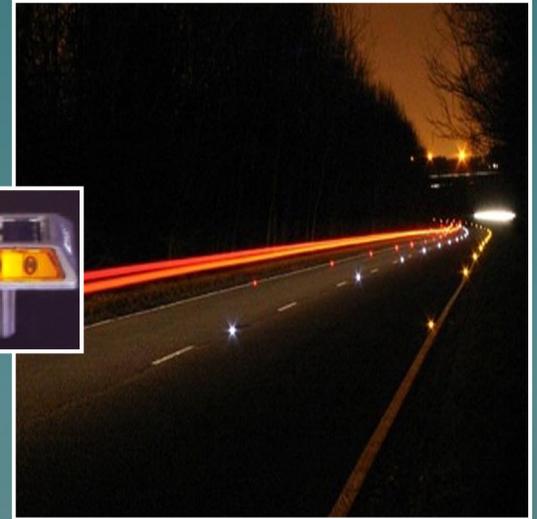
'ABTI' Solar Powered LED Traffic Signal System can also be connected to grid to ensure interrupt free operation. If continuous sunlight is not available during the backup period the connectivity to grid will enable the signal to draw power from the grid and charge the battery.

ABTI Solar Powered LED Traffic Controlling Signal Systems

Type	Solar / Hybrid
Operation	12 / 24 hours operation
Auto / Manual	Fully automatic operation
Power source	Solar power / Mains
The system consists	
Power	Solar photovoltaic (PV)
Stand by	Mains
Traffic Controller	Micro Controller
Storage Power	SMF Battery
Autonomy	3 days
Signal colour	Red, Amber, Blueish Green
Signal Size	300 mm dia

Abti Solar Road Stud

Solar Road Stud provides the clear and safe passage for road vision at night for drivers. The stud have a rugged design, which can easily bear the weight of a fully loaded truck or trailer. These studs are completely maintenance free.



Abti Solar Road Stud

LED in Red / Amber color for clear vision

Visibility is minimum 400mtrs at test conditions.

It is with aluminum die cast for all weather conditions.

This system is completely waterproof.

35 to 40 flashes per minute.

Abti Range of Products

Energy Saving Lighting Series

- Indoor Lighting
- Flood Lighting
- Street Lighting

Solar Energy Products

- Street Lighting
- Portable Lighting
- Home lighting
- Home Power Systems
- Solar Powered Telecom
- Surveillance Solutions

Solar Road Furniture

- Traffic Signals
- Traffic Controlling
- Traffic Blinkers
- Traffic Signages
- Solar Road Studs

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