



MANAV ENERGY

DELIVERING RELIABLE TOMORROW



L . M . A . S

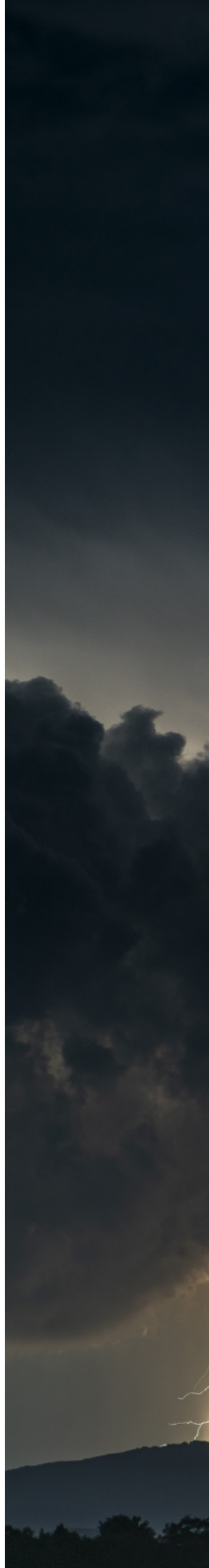
LIGHTNING MANAGEMENT AND ALERT SYSTEM

Manav Energy has been protecting various industry segments from lighting surges for almost 20 years. We are known for our world-class service of system integration as per requirement through our design, supply and commissioning expertise .

Lightning is an unpredictable phenomenon and discharges high voltage surges, that can flow into sensitive electronic instruments and communications systems which results in electrical and electronic equipment failures, unplanned shutdowns, fatal accidents and incidents.

By using the lightning protection concept safety and reliability is provided during the time of surge or strike without understanding the prevailing conditions in the environment. Whereas Lightning Management concept offers comprehensive protection from lightning surge by understanding the prevailing environmental conditions.

Direct and indirect lightning surges and its Electromagnetic (EM) interference can be managed through Lightning Management Systems (LMS). This product from Manav Energy is a combination of LMS and an Electronic Alert System that intends to provide complete protection during prevailing unsafe conditions in the environment and also during lightning strikes.



*COMPREHENSIVE
SAFETY FROM
LIGHTNING*





A STEP FORWARD FROM JUST PROTECTION !

LIGHTNING MANAGEMENT AND ALERT SYSTEM

A one of a kind system that provides the capability to manage lightning hazards by intelligently mitigating a lightning strike and providing a full scale alert that ensures every person is in the safe zone.

The LMS (Lightning Management System) predicts the occurrence of storms and manages the high energy dissipation. The LAS (Lightning Alert System) alerts the authorities on the prevailing unsafe condition during lightning. The LAS is integrated with LMS electronically to form LMAS that detects, predicts, measures, and annunciates the storm & lightning conditions in a given environment thus providing safety and reliability to lives, livestock, and assets.






INTELLIGENT LIGHTNING MITIGATION

LMAS detects, predicts, measures, and annunciates the storm & lightning conditions in a given environment.

AUDIO & VISUAL ALERT SYSTEM

During lightning and storm conditions, the LAS sends visual and siren alerts to all the personnel in the vicinity.




DATA COLLECTION & ANALYSIS

The Lightning or storm conditions can be observed through a port of transceiver, which is placed in LAS. To visualize the data, it can be connected to a computer having StormSat® (a product manufactured by Duval Messien) software via Ethernet connection.

SOLAR BASED BATTERY OPERATION

The LAS is powered by a 12 V (18 Ah) Lithium Ferro phosphate battery which gets charged using the installed solar panel.





L.M.S

LIGHTNING MANAGEMENT SYSTEM



StormSat® is a product manufactured by Duval Messien

The LMS is an active bipolar lightning protection system that predicts the occurrence of storms or lightning, based on the surrounding environment. It pre-emptively switches the environment and pushes all sensitive and high-value electrical assets on auxiliary power till unsafe condition exists. In return for safe state, the safety system returns to the main power, thus predicting & providing complete protection to the surrounding environment. It dissipates the high energy through a dedicated path thus ensuring safe operations of LV and ULV components during storm or lightning conditions.

StormSat® is a product manufactured by Duval Messien France is used for the lightning management system and integrated as per Manav Energy's specific design. It is the latest revolution in the lightning protection industry. This product detects storm activities within a 20 km radius and offers real-time protection. It provides a sense of security against lightning and its damaging effects.

Specifications

Material: SS and Polycarbonate

Colour: Metal and dark grey

Power Supply: Battery Ni-MH 4.8V /800mAh

Dimension - 200*900

Weight: – 5.5Kgs

SPECIFICATIONS

Operating Temperature	0 to 55°C
Power Supply	12V DC
Warning lighting Colour	Revolving Red Light
Warning Light Power Supply	12V DC (Can be customized for 230V AC) 3W LED
Hooter with Amplifier Power Supply	12 V DC
Hooter with Amplifier Input Power	25 W
Battery Capacity	12.8 V 18 Ah
Battery Dimension	132 mm x 100 mm x 75 mm
Battery Weight	1.92 kg
Solar Panel Power	12 W to 20 W
Solar Cell	Polycrystalline

L.A.S

LIGHTNING ALERT SYSTEM

Lightning Alert System (LAS) is an electronic device that triggers a warning with the help of a hooter and alert lights, thus alerting the people around the vicinity to disperse to a safe zone and helps in achieving zero accidents or incidents during this unsafe period.



EMAIL

You can drop an e-mail to resolve any hardware or software queries
at techsupport@manavenergy.com

ON-SITE MAINTENANCE

If the technical help desk cannot resolve the issue, Manav Energy
offers an on-site repair service.

PICK-UP SERVICE

Circumstances where hardware component/s may needs
replacement or off-site repair, we provide door-to-door service.

SUPPORT

We have a dedicated support team to guide and help with any correction or repair. Our post installation support staff can be contacted using any one of the methods as mentioned.





www.manavenergy.com

MANAV ENERGY PVT. LTD.
#28,PUNARVASU, 1st and 2nd Floor, E End Main Road, 4th "T"
Block, Jayanagar, Bangalore – 560041, India.
Tel: +91-8026546549,
Mob: +91-9611378007

