

# MEC

(Mobile Energy Container)



## MEC (Mobile Energy Container)

The Mobile Energy Container (MEC) offers a continuous power supply-reduction in power cost and many more Advantages.

MEC is designed for high power output, easy transport, on site assembly and remote operations.

Electricity is produced by 16 solar panels and 2 vertical wind turbine generators. MEC is equipped with 10kWh battery storage, and a gas or petrol powered 5kW generator.

The base model is mounted on 4 metres long, two-axle trailer. MEC is able to access remote all-terrain areas with a total weight of only 3000kg including the trailer.



## MEC advantages

MEC can be towed behind any vehicle or SUV. Just two personnels are required for assembly / disassembly on site without special equipment. A GSM network or satellite connection can be used for MEC remote control and monitoring.

The MEC PLC unit controls solar and wind power flows or a Combination of both, depending on the current power source availability.

MEC store surplus energy in the batteries. To maintain the power supply in unfavourable weather conditions, PLC unit switches on the generator automatically.

MEC parameters and accessories can be modified based on customer's needs. Please, contact us with your requirements.

## MEC module installation phases



Please feel free to contact us if you need any further information.

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## MEC versions based on deployment:



### **MEC Basic**

Ready to deploy in regular weather conditions with a power capacity 5 kW.



### **MEC IZS**

MEC IZS is an extended model of MEC basic, ready to use by fire departments, police, refugee camps, etc.



### **MEC Army**

MEC Army model is dedicated for military, mobile hospitals and medical facilities. It can be used for mobile laboratory use.



### **MEC Agriculture**

MEC agriculture is ready to deploy for agriculture and biotechnology. It can power source for irrigation devices.



### **MEC Leisure**

MEC Leisure is suitable for tourist centres, diving centres, charging electro bikes, vehicles and boats, etc.



### **MEC Technic**

MEC Technic is designed to supply power for TV or satellite trucks, telecommunication technology, etc.

MEC provides a constant power supply. The PLC unit continuously determines the most efficient power source from sun, wind, or a Combination of both. The PLC fully covers immediate energy consumption, storing any surplus to batteries. Under a full load of connected appliances, the system is designed to use approx. 10-20% of the total energy for battery charging, until they are fully charged.

Another advantage of MEC's technical solution is that the batteries are never completely discharged. They will always keep enough energy to maintain monitoring and remote access. A petrol or gas generator is used to backup connected appliances and battery charging.



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