

# IMDBOX SAFETY RELAY SYSTEM

- > **GROUND SPIKE NOT NEEDED**
- > **ENSURES ELECTRICAL SAFETY**
- > **PLUG & PLAY**



## ELECTRICAL SAFETY FOR USERS OF MOBILE INVERTERS AND GENERATORS IN VEHICLES

**The IMDBOX ensures electrical safety when using an AC 230V energy power system, e.g. mobile inverters- or generators run by fossil fuel inside a vehicle using 'protective separation with insulation monitoring and disconnection'.**

To provide the highest safety, the IMDBOX is equipped with both a combi C16A/30mA RCBO protection relay and an Isolation Monitoring Device.

Usually installations inside buildings are connected to the grid with a ground spear or directly to the power plant. However using a ground spear from a moving vehicle is not possible and connecting one from a parked vehicle requires a professional electrician to measure the present resistance in the ground and to start up the system.

The combination of both the protective separation and the integrated protective devices mentioned above, offer a safe environment for end users of AC 230V, both inside and outside vehicles equipped with AC 230V systems connected to the IMDBOX.

The integrated IMD in the IMDBOX continuously monitors the insulation resistance of the unearthed system and the currently measured insulation resistance is indicated on the built-in LED of the IMD. In this way changes such as the connection of loads via socket(s) can easily be visually. The IMDBOX will automatically disconnect from 230V if a fault is detected.

Using the IMDBOX in vehicles mounted after inverters and other 230V power products will offer you the highest safety possible as it is more secure than a normal house connection.

### > FEATURES

- Electrical safety in vehicles
- Low weight
- Has IP55 protection with lid closed
- RCBO + IMD
- Complies with German DGUV
- Easy to install
- Quick fix solution with Smart Cables and Schuko plugs.

# IMDBOX

## SAFETY SYSTEM

### > SPECIFICATIONS

<b>PRODUCT NUMBER</b>	IMDBOX
<b>STANDARD</b>	IEC 61439-1, -3
<b>ENCLOSURE MATERIAL</b>	Impact resistant polyester
<b>IP CLASS</b>	IP65 (IP20C with open hatch)
<b>RATED IMPULSE VOLTAGE</b>	250V
<b>EARTHING SYSTEM</b>	IT-system
<b>RATED VOLTAGE UE</b>	1 x 230 VAC
<b>NOMINAL CURRENT, IE</b>	max. 16 A
<b>PROTECTION AGAINST INDIRECT CONTACT</b>	- CONNECTION BOX: Total isolation - OUTGOING CIRCUIT: Automatic disconnection
<b>OPERATING TEMPERATURE</b>	-25°C to +60°C
<b>STORAGE TEMPERATURE</b>	0°C to +50°C
<b>WEIGHT</b>	1.32 kg
<b>DIMENSIONS</b>	115x200x150 mm (HxLxW)
<b>CERTIFICATES</b>	CE Conformity DGUV 203-032 Conformity

### > CONTACT

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**With the lid closed the IMDBOX has IP55 water and weather protection.**