

IMDBOX SAFETY SYSTEM

- > **SAFE ENVIRONMENT**
- > **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 combined with a 16A contactor.

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 mowing vehicle is not possible and connecting one from a parked vehicle requires a professional electrician to measure the present resistance in the ground.

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 detected through the hatch.

Using the IMDBOX in vehicles mounted after inverters and other 230V power products will offer you the highest possible safety just as in a building.

> 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

CONTACT INFORMATION

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> SPECIFICATIONS

MODEL	IMDBOX
STANDARD	IEC 61439-1, -3
INTERNAL FORM	Form 1
POLLUTION DEGREE	2
EMC ENVIRONMENT	1
ENCLOSURE	Impact resistant polyester
DEGREE OF PROTECTION	IP55 (IP20C with open hatch)
RATED IMPULSE VOLTAGE	250V
EARTHING SYSTEM	IT-system
RATED VOLTAGE UE	1 x 230 VAC
IKMAX., ICF	6kA
MAX. IK, ICW	0,28kA
MAX. I2T	78400A2S
NOMINAL CURRENT, IE	max. 16 A
PROTECTION AGAINST INDIRECT CONTACT	
- CONNECTION BOX	Total isolation
- OUTGOING CIRCUIT	Automatic disconnection
WEIGHT (KG)	1.28 kg
DIMENSIONS (H*L*W)	95*190*120 mm
OPERATING TEMPERATURE	-25°C to +60°C
STORAGE TEMPERATURE	0°C to +50°C



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

CAUTION: The distribution panel data changes if the panel is modified. The CE-marking is only valid for this distribution panel.