
ENSTORE

BE INDEPENDENT

ENSTORE POWER BOX

HYBRID AND ISLAND SOURCES
FOR UNINTERRUPTED POWER SUPPLY



ENSTORE PowerBox powers all equipment that operates with 12V, 24V and 48V DC voltage.

How does EPB work?

- Primarily, our equipment is designed to be placed on public lighting lamps, where power only is available in the evening and at night. Nevertheless, for the installed equipment it is necessary to ensure its supply around the clock, 24 hours a day.
- The EPB addresses the requirement for continuous power supply ensuring the power supply even at moments when the public lighting lamps are switched off during the day.
- The EPB principle can be summarised as "charge at night, discharge during the day". This system is referred to as a 'hybrid' one.
- In addition, EPBs can also be powered by solar panels, without the need to be connected to the electricity grid. In this case, the reversed principle is applied, i.e. 'charge during the day, discharge at night'.
- The EPB can also combine the two principles together, i.e. to be powered both by the public lighting grid during the night and by photovoltaic panels during the day. This can extend the life of the battery cells, increase the capacity of the equipment and effectively reduce the consumption of the power from the grid.
- Our equipment can also be used as a backup power source in case of a grid failure.

EPB can power

- Camera systems
- Radio systems
- WiFi hot spots
- Surveillance centres
- Electronic security of premises
- Traffic speedometers
- Traffic lights
- Light marking
- Docking stations for mobile devices

Remote EPB monitoring and its report

- The EPB is equipped with SMART technology and is thus ready to transfer information about the status of the equipment to the "ENSTORE BACKUP SYSTEMS" cloud, where it continuously stores data about its operation and where you can conveniently monitor and control everything. In this case, the system can also send notifications that facilitate its management.
- For data transmission, provide an internet connection and any device that allows data transmission either wirelessly or by cable can be used for this purpose. Therefore, the EPB is equipped with, among other things, an RJ 45 Ethernet connector. Of course, data can also be sent using a data SIM card.
- The cloud-based interface for device registration and management is completely intuitive.
- An internet connection alone is not a prerequisite for the functionality of the EPB. If the device is operated without internet access, you lose the possibility of connecting to the cloud "ENSTORE BACKUP SYSTEMS" and performing remote management of the EPB.

EPB is just beginning ...

We are not just an EPB manufacturer but also a supplier of other extension components that facilitate interconnectivity and are designed to maximize interconnection efficiency and minimize power consumption of the additional equipment.

A municipality that needs to supervise a sorted waste collection point, a playground or a road at a place where there is a public lighting mast and no other source is available locally, can be used as a perfect example. Even in this case, we have a perfect solution in the form of an EPB with an additional camera, which solves the data transmission, for example wirelessly, and in particular allows monitoring the incriminated area on a 24/7 basis, without a need for a constant power supply from the mains, even when the lamp is not lit.



25 YEARS

Minimum lifetime of LTO batteries

SMART

Remote monitoring

-30/+60

Operating temperatures

CZ

Made in the Czech Republic

Key EPB parameters

- Inputs and outputs from the EPB as standard:
 - 3 x power output, DC 12V
 - 1 x input for 230V power cable including 5m cable for connection to the power supply
 - 1 x input for solar panel power cables
 - 1 x outdoor Ethernet RJ45 connector
- EPB inputs and outputs as above the standard:
 - Extending the number of DC 12V power outputs as an option
 - Increasing the supply voltage of the outputs to DC 24V and 48V as an option
- Expanding inputs and outputs according to individual requirements as an option
- Unique LTO battery cell technology used
 - Standard warranty on EPB is 2 years.
 - LTO Battery life in EPB is at least 25 years or 30,000 cycles. We also provide an extended warranty as an option
- The EPB has an IP 65 rating thus complying with outdoor installation conditions
- The EPB product meets the required legislation and standards within the Czech Republic and the EU

We offer the ENSTORE Power Box in four capacity options:

Product variant	Continuous nominal consumption (W)	Comm via internet	Output voltage	Input voltage	Capacity accu (Wh)	Maximum power consumption (A)	Outer dimensions (mm)	Internal compartment dimensions (mm)	Total weight (kg)	Expected battery life
ENSTORE PowerBox 10	10	YES	3x 12V	AC 230V 50Hz DC 12-22V / 7A	200	3	H = 420 W = 320 D = 180	H = 150 W = 260 D = 80	7	25
ENSTORE PowerBox 20	20	YES	3x 12V	AC 230V 50Hz DC 12-22V / 7A	400	3	H = 420 W = 320 D = 180	H = 150 W = 260 D = 80	10	25
ENSTORE PowerBox 40	40	YES	3x 12V	AC 230V 50Hz DC 12-22V / 7A	800	5	H = 500 W = 350 D = 200	H = 150 W = 300 D = 100	15	25
ENSTORE PowerBox 40L	40	YES	3x 12V	AC 230V 50Hz DC 12-22V / 7A	800	5	H = 500 W = 350 D = 200	H = 150 W = 300 D = 100	11	7
ENSTORE PowerBox 65	65	YES	3x 12V	AC 230V 50Hz DC 12-22V / 7A	1200	10	H = 500 W = 350 D = 200	H = 150 W = 300 D = 100	22	25
ENSTORE PowerBox 65L	65	YES	3x 12V	AC 230V 50Hz DC 12-22V / 7A	1200	10	H = 500 W = 350 D = 200	H = 150 W = 300 D = 100	16	7

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