

DTC-UPSI-12/8

Robust UPS for automotive applications

BENEFITS

- Protects measuring devices from voltage dips
- Regulated voltage during backup operation for more than 60 s
- Maintenance-free energy storage
- High cycle stability (> 500,000)
- Charging time <60 seconds at maximum charging current
- Extended temperature range -20 ... + 70 ° C
- Compact, robust aluminum housing IP67
- Active inverse-polarity protection



Uninterruptible power supply

The DTC-UPSI-12/8 is a small, compact, and extremely flexible uninterruptible power supply that provides power for up to 1 minute when the actual power supply is interrupted. It protects your measuring devices from a power failure and from unexpected power fluctuations. The battery of the UPS is recharged during normal driving.

Protect your equipment from power surges

The reliable DTC-UPSI-12/8 has invaluable features such as inverse-polarity protection and overvoltage protection. Rapid voltage drop detection prevents unwanted power failures. In addition, the user is also warned if there is an irregular power supply.

Avoid unintentional restarts due to power failure

The device is designed for use in vehicles with automatic start / stop or if there is a voltage drop when starting. If this happens, you will be warned immediately by an acoustic signal. The internal batteries of the DTC-UPSI-12/8 then continuously supply power for up to 1 minute.

Connect to a wider range of input voltages

Thanks to the large input voltage range from 7 V to 36 V, the DTC-UPSI-12/8 can be used in automobiles, trucks and other vehicles.

- Reliable and constant power supply during testing

Specifications DTC-UPSI-12/8

Input voltage	7...36 VDC
Input current	16 A max.
Output voltage	14 VDC
Output current and power	8 A max. / 96 W max.
Protection against	Deep discharge Overload current Overheating Polarity reversal during commissioning
Battery type	Supercap pack BP-SUC-10066
Energy storage	9,8 kJ (6,6 kJ)
Temperature range	Operation and storage: -20...+70 °C
Max. operation height	5.000 m
Dimensions	267 × 202 × 117 mm (with mounting) 232 × 202 × 110 mm (without mounting)
Weight	3,55 kg



DTC-UPSI-12/8 front view (above) and back view

The UPSI-12/8 is available in three versions:

UPSI-12/8-A (article 31353):

With vehicle plug on the input cable (3 m) and 2-pin LEMO plug on the output cable (3 m), it is suitable for devices with a 2-pin LEMO power input such as AVAD3, MVR4 etc. Variant A can also be supplemented with the DTC-UPSI adapter box (article 30712).

UPSI-12/8-B (article 31352):

With vehicle plug on the input cable (3 m) and 4-pin Binder plug on the output cable (3 m), it is intended for all OxTS inertial sensors as a replacement for the RT-UPS.

UPSI-12/8-C (Article 31232):

With open ends on the input cable (3 m) and output cable (3 m) for customer-specific connectors.

DTC-UPSI-12/8 adapter box

The DTC-UPSI-12/8 is supplied with an adapter box.

This offers reverse polarity-protected and feedback-free connections for banana plugs (2 ×), a car power outlet and a 4-pin connector. In addition, 3 m long connection cables are included. This enables to install UPSI-12/8 for example in the trunk while only one cable is routed to the distribution box and to the measuring devices.

Dimensions:

120 × 50 × 40 mm
Central switch

Connections:

2 × banana plug
1 × car power outlet
1 × 4-pin connector

DTC – Your full-service solution partner for measurement technology used for autonomous driving and ADAS testing.