LVUPS-140-UN1-OF

Universal buffer module for vehicle installation

12V/24V, 70W/140W, built-in module

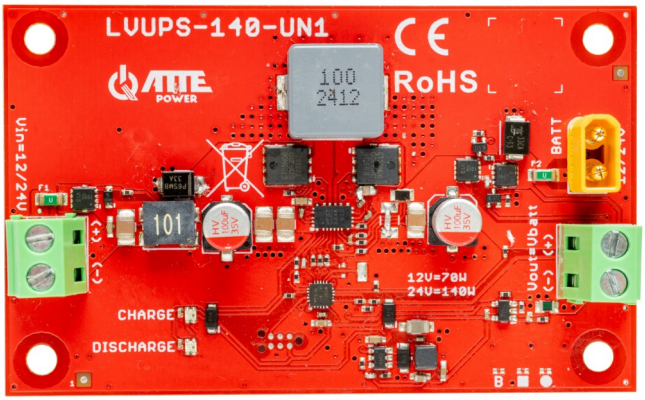
LVUPS-140-UN1-OF is a universal buffer module designed for use with vehicle installations of 12V or 24V.

It allows an additional battery to be connected to the existing vehicle installation and simultaneously powers output devices such as mobile recorders or IP cameras.

The main task of the module is to ensure that the network equipment continues to work even when the vehicle is switched off. This makes it possible to carry out monitoring both while driving and when stationary, without the risk of discharging the car's main battery.

The LVUPS-140-UN1-OF module automatically detects the operating state of the vehicle (ignition/rest) based on the supply voltage. While the vehicle is running, the additional battery is charged and, when the vehicle is stopped, it takes over as the power source for connected devices.

The OF (Open Frame) design allows the device to be built into any enclosure, but the most convenient way to do this is with dedicated ABOX series enclosures and mounting plates, equipped with a system punch in the 10.8mm grid.



FEATURES:

- possibility of creating a buffer system in vehicles
- ensuring that the equipment operates after the engine has been switched off without discharging the main battery
- automatic power supply detection minimizes interference with the vehicle installation
- possibility to work on two different voltages: 12V and 24V
- high module efficiency >90%
- up to 140 W output power (for 24V/24V configuration)
- battery circuit protection against deep discharge
- clear indication of operating mode and battery level

DESIGNED AND MADE IN POLAND

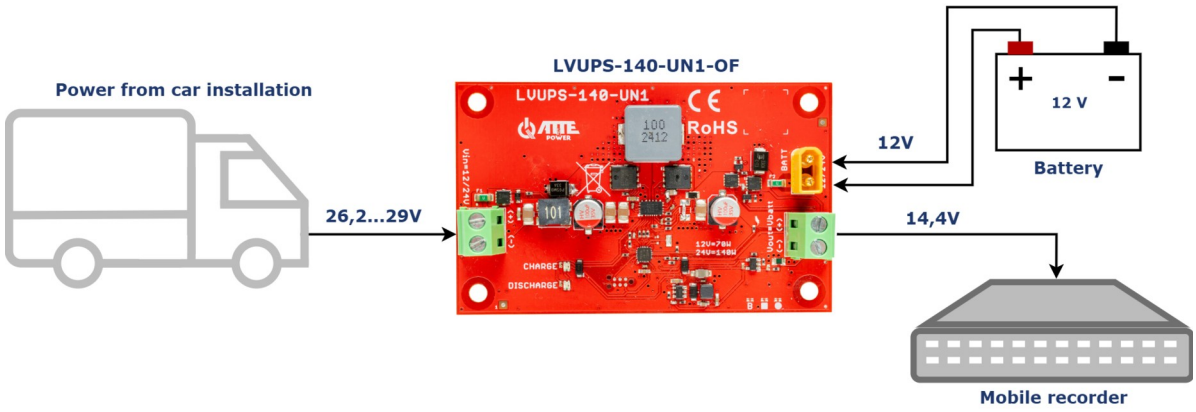
LVUPS-140-UN1-OF

TECHNICAL SPECIFICATION:

Battery	1x or 2x 12V gel or AGM batteries
Output voltage	14.4 VDC +/-2% - for 12V battery 28.8 VDC +/-2% - for 24V battery
Input voltage	13.2...15 VDC 26.2...29 VDC
Efficiency	92%
Output power	70 W - when input or battery voltage is 12V 140 W - when input and battery voltage is 24V
Maximum output current	For input voltage 13.2...15V: With 12V battery – 5A With 24V battery – 2.5A For input voltage 26.2...29 VDC: With 12V battery – 5A With 24V battery - 5A
Charging current	< 5 A - The charging current is equal to the maximum current minus the output power consumption
Converter idle current	27 mA @Vin = 13,8 VDC

Protection	Surge protection Overload protection set at 5A Reverse polarity battery protection Deep discharge battery protection: 10.8VDC - for 12V battery 21.6VDC - for 24V battery
Indication	LED CHARGE – Charge voltage detected at Vin connector LED DISCHARGE – No Vin input voltage (battery operation)
Housing Construction	None - built-in module
Assembly	Snap-on distance plugs, mounting holes in 10.8 mm grid
Operating Temperature	-25 ... +65°C
Dimensions	86 x 53 x 16 mm
Weight	0,033 kg

Example of use of LVUPS-140-UN1-OF to power a mobile recorder with an additional 12V battery.



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