

Robust charging and testing device for batteries used in military missions

Today's military operations are performed on a global stage. Managing them, as well as the rapidly changing face of deployment scenarios and the increased demands placed on armed forces mobility, means overcoming the challenges presented by technology. For dismounted troops, the ability to recharge the equipment batteries they are travelling with is essential for keeping their mobile applications up and running within remote regions - or in other words, essential to survival. As a result, charging devices are expected to offer better and better performance all the time.



and discharging station for equipment shocks and vibrations. batteries used in mobile units. Certified

as compliant with military standards, it The device has already proven what it für Ausrüstungsbatterien" has an on-board voltage supply and is can do in military applications. As part voltage-supplied charger wards off water and dust, FENNEK, it ensures that mobile units can batteries"). resists salt fog, holds up against varying remain available during reconnaissance

Now, ATM ComputerSysteme GmbH has pressure and temperature levels, and operations. The German army uses introduced its battery charger: a charging performs even when subjected to heavy the ATM battery charger under the working name "Bordnetzgespeister universeller Batterieladegerätesatz ("On-board universal microprocessor-controlled. The battery of the equipment used on the JFST charging device assembly for equipment

Intelligent technology recognises battery type

for different battery types.

the move. At present, the battery charger overcharging. supports equipment batteries for Nyxus observation gear and PRC-148 radios, As the charging process is able to take mode, for example. which has every battery parameter used board voltage level. in the charging and discharging process each battery type. This makes the ATM shows this information in a clear format. battery charger completely welcoming to new methods of design and technology. Plain text display provides an ATM is working on providing support **overview of information** for additional battery types even as we speak.

Charging and testing – even with stationary vehicles

Its ability to charge up to four different intelligent charging electronics ensure charging process. types of batteries at the same time makes the battery is charged to an optimum the battery charger an indispensable tool level at all times. At the same time, the To support these enhanced operating during missions that are constantly on electronics prevent battery packs from features, the battery charger also provides

as well as BB-2590 batteries. However, place even when the engine is switched the intention is for it to accommodate a off, it does not need the vehicle's Adapted to customers, adapted much wider range of batteries used in propulsion system to be running. And to needs missions in the future, since the charging the ATM battery charger looks after the device does not require any technical vehicle battery itself too: to prevent it from To enable use on the JFST FENNEK, ATM modifications to accommodate other deep discharging, the charger monitors has designed a box-shaped charging battery types or new battery types. This is the vehicle's on-board voltage and blocks cradle holder that accommodates both thanks to the intelligent charging cradle, the charging process below a 22 V on- the secondary batteries that troops carry

them to be read out for the charging device. the user to identify whether a battery no risk to the soldiers in the vehicle. As a result, any changes that ATM makes that has been inserted is still providing Additionally, the shape and design of the to the battery charger to accommodate the necessary capacity. During cyclic charging cradle holder can be adapted to battery type requirements will simply charging, the charging device determines suit customer requirements as well as the involve adapting the mechanical and the residual capacity by carrying out space available in the vehicle. electrical components of the charging discharging and charging twice. If this

display on the charging device shows plain applications. text information about the selected battery, in addition to the GO/NOGO indicator on the

Assuming the battery charging device is charging cradle. The backlit display has a switched on, the charging process starts 2x16-position character area and provides automatically as soon as a charging cradle information including up-to-date measured The battery charger consists of the with a battery is inserted in the charging values, error messages from the device universal battery charging device itself, cradle holder. For this purpose, the or battery, and help text in German. And the charging cradle holder for mobile use charging device fetches the parameters it because any of the ATM battery charger's in vehicles, as well as charging cradles needs from the charging cradle, so there display elements can be darkened, they is no need for any manual settings or can be incorporated into camouflage even for any specialist knowledge. The measures - with no interruption in the

> four push buttons that the operator can use to start cycling or activate camouflage

with them and the charging cradles themselves. The closed design protects programmed into it in a way that allows The cyclic charging function enables the batteries during transport and poses

cradle. Not only that, but these changes capacity is outside of a defined value, the The ATM battery charger offers yet will only need to be carried out once for battery is deemed to be faulty. A display another advantage in that there is no need for any other charging devices that can only accommodate a particular type of battery - saving space in the vehicle as a result. Thanks to this standardised approach, the device opens During the charging process, the backlit LC opportunities for integrating other vehicle

