



Peripheral Units

Battery Conservation

Nowadays, the lifetime of the batteries in lead technology is extremely extended due to proper charging technology and avoidance of total discharge. Even temporary load of the battery with appreciable current rates, as well as periodical recharging after extended standstill periods (seasonal operation) are simulating a driving mode and counteract to a "weak" battery. The following two units shall extend the battery lifetime by training as well as by avoidance and decomposition of sulphate and acid accumulation and shall reactivate batteries seeming to be defective.

Battery ProFIT

The VOTRONIC Battery ProFIT is activated at battery charging (battery refresher) and automatically ensures the life-preserving fitness of the battery during driving. For regeneration, additional, very short and powerful charging current pulses (approx. 8000 per second) are supplied to the battery to remedy already existing damages and to decompose and destroy sulphate accumulations in the battery. Formation of new sulphate crystals is prevented. Even weak batteries seeming to be defective will be reactivated. In ideal case and if the battery is not too much pre-damaged, the former values of capacity and charging capacity will be achieved.

Battery Trainer

The VOTRONIC Battery Trainer is active during the remaining time, when the battery is not charged. Sulphate accumulation and other degenerating effects at the lead plates of the battery are reduced, and the battery is kept in good condition, if it is not used for an extended period or if it is permanently discharged with only inferior current rates (self-discharge, latent consumers etc.). The battery is protected from premature ageing and failure. The unit is a kind of fitness trainer due to the very powerful and very short double current pulses, which are adapted to the charging state of the battery. However, the energy being taken from the battery in the scale of the self-discharge is proportionally low due to the short pulses and long intermediate intervals. If high-capacity consumers are connected, the battery trainer will change automatically to pause mode.

Both units will be directly connected to the battery with original connection cables and cable lugs M8. The function of sensitive consumers or charging devices will not be affected. Both units will be connected directly to the battery or the battery system using cable lugs M8, and they are suitable for any type and brand of lead battery 12 V (acid, starter, gel, AGM).

These pulses can also support formatting of new batteries. For optimum results, current and voltage curve of the pulses are adapted to the charging voltage curve of the battery. The VOTRONIC Battery ProFIT is suitable for any type and brand of 12 V lead battery (acid, starter, gel, AGM).

The integrated diagnostic function of the intelligent unit stores extraordinary operating states of the battery, such as total discharge or overvoltage. The memory can be read or deleted at any time.

Two light-emitting diodes serve as operational check:

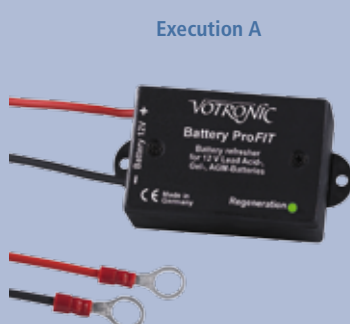
- Pulse current control
- Warning that recharging of the battery is required

The VOTRONIC Battery Trainer is suitable for any type and brand of 12 V lead battery (acid, starter, gel, AGM).

Unit Type	Order No.	Battery Voltage	Battery Capacity	Activation Voltage	Pulse Current Short-time	Pulse Repetition	Own Consumption	Dimensions* (WxDxH)	Weight	Execution
Battery ProFIT	3062	12 V	20-200 Ah	> 13.3 V (Charging)	20 A	8000/s	0.1 A	76x40x25 mm	80 g	A
Battery Trainer	3064	12 V	20-200 Ah	< 13.2 V (Discharging)	100 A	20 s	0.012 A	76x40x25 mm	70 g	B

* Dimensions incl. mounting flanges, without connections

Delivery Scope: Manual



Execution A

robust
water-tight
vibration-proof



Execution B

robust
water-tight
vibration-proof

