

Ready for use at any time

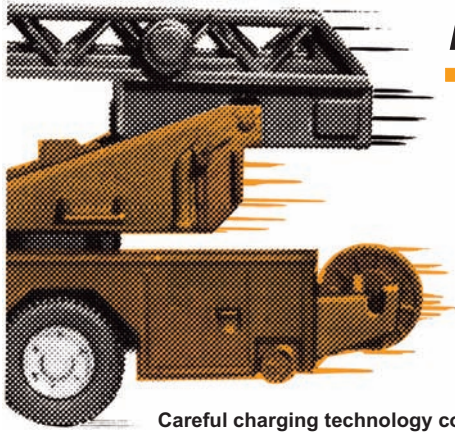
with electric power supply and charging systems

from

BEOS^{GmbH}
Elektronik-Technologie

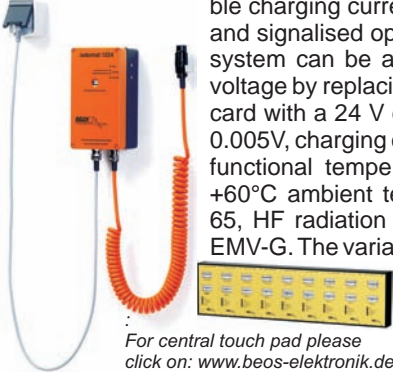
Systeme

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Careful charging technology considerably increases the starter battery service life thus reducing costs and protecting the environment.

The **Ladomat 1224** has a **high-precision** type of control. The battery parameters are **continuously** measured via the sensor line. Based on this the electronic system determines the most favourable charging current. All failures are recorded and signalled optically and acoustically. The system can be adapted to the board mains voltage by replacing the 12 V voltage program card with a 24 V card or vice-versa. Ripple < 0.005V, charging current from 0.001 A to 3.5 A, functional temperature range from 30°C to +60°C ambient temperature. Unit acc. to IP 65, HF radiation and irradiation-safe acc. to EMV-G. The variant which is suitable for being installed in vehicles can be supplied with automatic built-in start interlock (immobiliser) (NÜ220).



For central touch pad please click on: www.beos-elektronik.de

Electronic DC impulse loading unit. The unit **Stand By Ladeautomatik Thyra** has been designed for being fitted into vehicles and for automatic unsupervised charging. In line with the limit load curve the unit can supply max. 16 A and 12 A permanent charging current based on 24 V board mains. It is equipped with switch-on lock deep discharge switch on interlock to protect the batteries and technical vehicle parts from destruction. The protection requirements of protection class II and IP 65 as well as all protection targets of EMV and e1 have been met.



The **Stand By Ladeautomatik** unit for automatic charging is a two-position power controller with secondary timing, protection class II. The electronic system automatically changes over from charging to maintaining the charge at a set level, here only the number of energy impulses (0.5 joule) per time unit varies. The max. charging current is 12 A, the permanent charging current is 8 A. When the battery has not been connected the unit output is disconnected from the mains (short circuit proof). LEDs in the charging current measuring instrument indicate the operating state and failures. The unit can be reprogrammed for 12V/24V batteries and is electronically protected from overload. All protection targets of EMV and e1 have been reached.



Unit for installation in vehicles/unit for wall mounting IP 65



hand-held unit IP 54

The **Stand By DUO**, a power supply and charging unit, protection class II, IP 65, for autonomous loading of two battery blocks 12V/24 V, with separated individual electronic system for measuring and controlling. Each battery block can supply up to 12 A. Each branch of the unit is protected against overload and has its own charging current display as well as LEDs to display operation control. This unit is also suitable for charging batteries with different operating voltages.



Ladomat Konverter for 12 V PB batteries, 1 mA-5A charging current, with measurement of battery temperature and internal resistance. In the microprocessor system 58 test, measurement, control, and display programs can be processed. All important operating states are shown on the display. The characteristic charging curve, battery type and capacity can be set by the customer. Unit types for 24 V, 12 V and 36 V board mains, degree of efficiency 87 %, IP 65.



The **Ladomat 1224 NAW** units are high current, power supply and battery charging systems for unsupervised automatic operation inside a mobile unit (vehicle). These units correspond to protection class II and protection type IP 65, the 50 A unit to IP 54. The units use the impulse charging process. The 30 A and 50 A units can be equipped with the programmable dynamically graduated control. LEDs in the measuring instruments indicate the operating state and any possibly existing failures. At request the Ladomat 1224 NAW units can also be equipped with an automatic start interlock (immobiliser) for 230 V power supply (NÜ 220).



25 A



30 A



50 A

Automatic voltage recognition



Automatic start interlock (immobiliser)

dynamically graduated control



The automatic and cable winding systems „Stand By Flex” can be used for either wall or ceiling mounting. The cable winding system can be supplied as 4 m or 12 m cables for 230 V mains voltage or for safety-low voltage and is suitable for use with BEOS charging systems.



Field cable drum and adaptercable



Please download for extensive supplementary equipment :www.beos-elektronik.de



Compressed air compressor for automatic un-supervised operation in the vehicle. The brake air pressure level can be set from 0 to 15 bar. For special purposes the air pressure level has been fixed to a static value of 15 bar, output: 130 l/min. Pressure accumulator: 30 l, electronically controlled, operating hour counter.

Hose winding system and compressed air system parts



Voltage transformer 24 V 12 V DC, 5 A, 20 A
Module components 20 A 100 A



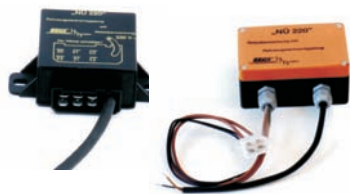
180 A power circuit breaker, electronic battery separator and sudden release relay for 12 V and 24 V



Stand By Control Switch
(battery control)



Electronic vehicle start interlock
(immobiliser) "NÜ 220"



12 V 24 V Energy Control with additional sudden release function, visual and acoustic error message



IP 54 for internal installation

IP 65

for installation in chassis

Sinus converter
12 V - 24 V DC, 230 V AC output, galvanically separated.



1 KW, 1,5 KW, 2,0 KW

DC broadband interference filter effective against line-bound disturbances (converters etc.)



12 V/24 V, 25 A

Compact and modular tested systems, wired ready for connection acc. to the safety requirements VDE 0100-717 for mobile companies (vehicles) with equipment or distribution of 230 V / 400 V AC, 1.0 KVA to 12.6 KVA

All mains systems correspond to protection class II!

Complete system of compact and safety disconnecting transformer, TN-S mains



IP 54

IP 54

IP 54

Safety disconnecting transformer single-phase, three-phase YY or ΔY



IP 54

IP 66

IP 66

Modular single-phase TN-S-system, wired ready for connection

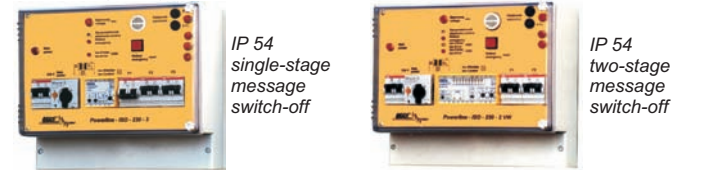


IP 54
Mains

IP 54
mains and converter

IP 54
mains and generator

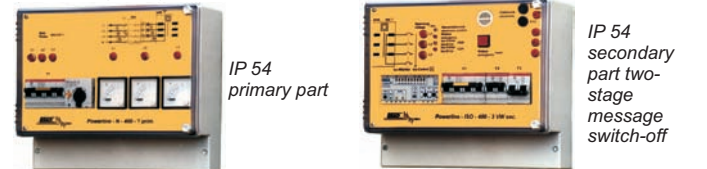
Modular single-phase IT system, wired ready for connection, with insulating control and visual/acoustic message as well as emergency stop



IP 54
single-stage
message
switch-off

IP 54
two-stage
message
switch-off

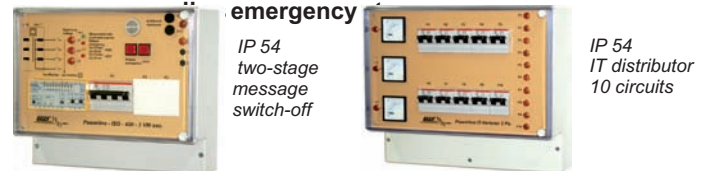
Modular three-phase IT system, wired ready for connection, with insulating control and visual/acoustic message as well as emergency stop



IP 54
primary part

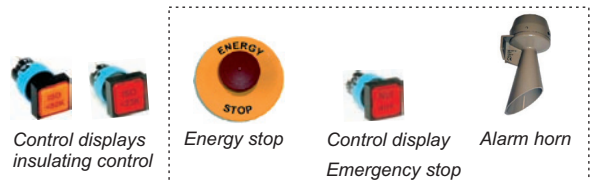
IP 54
secondary
part two-
stage
message
switch-off

Modular three-phase IT generator system, wired ready for connection, with insulating control and visual/acoustic emergency



IP 54
two-stage
message
switch-off

IP 54
IT distributor
10 circuits



Control displays
insulating control

Emergency stop

Control display
Emergency stop

Alarm horn

For further technical details please download:
www.beos-elektronik.de