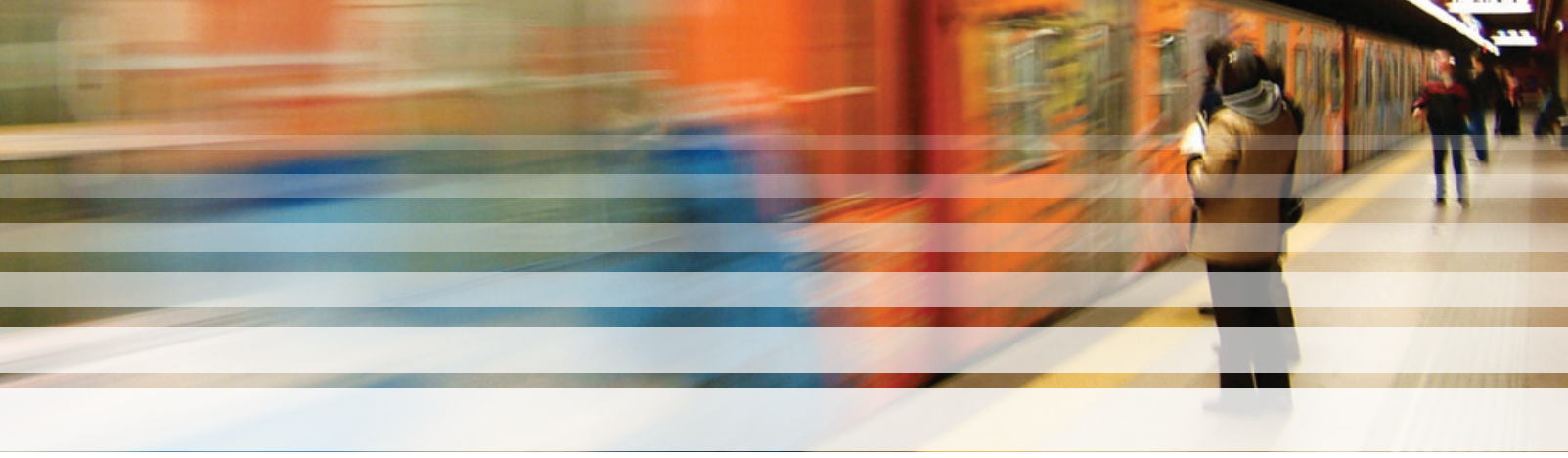


# Battery pack with built-in 3,5kW Battery Charger

## For railway passengers cars


## BALIN System P/N: TR02- 001DAF

- **IN: 400 VAC 50 Hz, 3ph+n / 600 VDC**
- **OUT: 24 VDC**
- **Full digital control**
- **RS485 interface for diagnostic**
- **IP67 electronic side**

### WHAT'S IN IT FOR YOU:

- **Full energy management / all-in-one-box**
- **High power density (massive size & weight reduction for system solution)**
- **Suitable to new concept 600 VDC power-bus DC link on trains**
- **Any kind of batteries technology supported**
- **Battery charger available stand-alone**

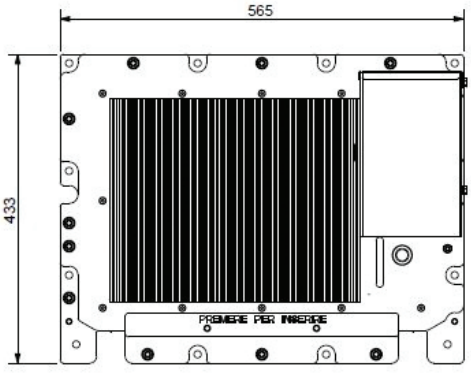
RGM developed BALIN according to Trenitalia (primary train operator in Italy) needs to renovate its fleet of old batteries and battery chargers installed on passengers cars.
BALIN meets new trend requests of 600 VDC Train Link; increasing technical performances through a compact design, saving costs, reducing TCO and improving RAMS parameters, were the most important targets that RGM achieved.
The BALIN modular design allows to use the battery charger/power electronic as stand-alone module supporting any kind of batteries available on the market.

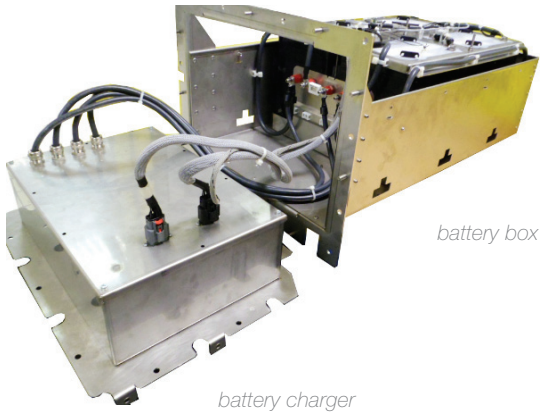
RGM®
PARTNER OF LEADERS

# Battery pack with built-in 3,5kW Battery Charger

## DEVICE TECHNICAL SPECIFICATIONS

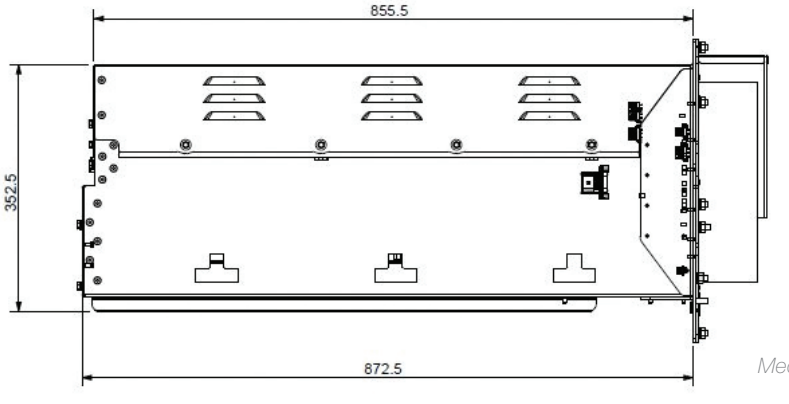
| | |
|---|---|
| Device Type | 3,5 kW Battery Charger plus Battery pack natural cooled based with SiC technology, linked to 600VDC train-link (or 3x380VAC in depot) for underframe installation |
| Power technology | Soft switching, SiC based |
| Control technology | Full digital, DSP/FPGA based |
| Vin AC | 380 VAC (340-460 VAC) |
| Vin DC | 600 VDC (300-750 VDC) |
| Nominal output voltage | 24 VDC |
| Nominal output power | 3,5 kW |
| Peak output power | 5,5 kW |
| Energy buffer technology | Any kind of batteries |
| Cooling | Natural convection |
| Overall dimensions | 890 x 492 x 433 (mm) including batteries |
| Battery charger / Power electronics dimensions | 565 x 240 x 433 (mm) (front flange with wall connectors included) |
| Weight | Batteries included: 210 kg<br>Battery charger stand-alone: 26 kg |
| General requirements | EN 50155, EN 50125, EN 61373 |
| Safety | In accordance with IEC 50153 |
| Fire Protection | Comply with the standard CEI EN 45545 |



*battery box*

*battery charger*




*Mechanical layout (dimensions in mm.)*

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