

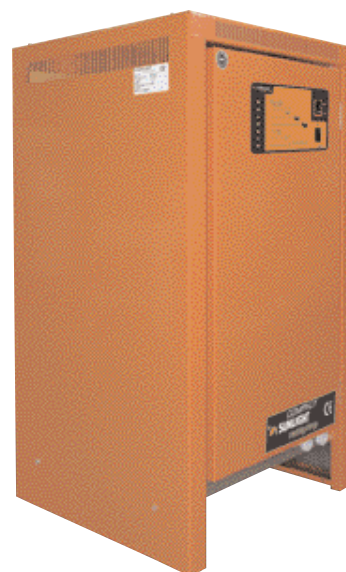


Chargers for Traction Batteries

COMPACT 30 Single Phase (Wa) Series

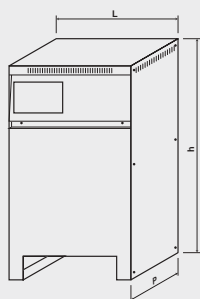
Technical Characteristics

- 230V single phase supply, adjustable to +/- 5% or to +/-10%.
- Microprocessor controlled programming and measuring via digital gearcase 24V-50 Hz supply.
- 230V coil three-pole contact.
- D.C. fuse on rectifier output.
- Delta-Star stray flux three-phase power transformer, TENVEX copper windings with double enamel insulation, class H, impregnated in autoclave with ecological epoxy resins, with thermocouples for disconnection due to maximum temperature.
- Three-phase rectifier bridge with silicon diodes, natural cooling, with snubber protection.
- Mains input with D.C. output polarized cables.
- Modular installation on galvanized steel base.
- Sheet steel case with modular panels so as to assure maximum accessibility in case of service.
- Epoxy powder coating, oven baked.
- Standard colour: RAL 2004.
- Lexan plate with charging data.
- Equilize recall push button.
- ON-OFF push button.
- Option to adjust the charging time from 90 to 210 minutes.
- Option to adjust the threshold voltage from 2.3 to 2.4 V/Cell.
- Timed equalization charge.
- LED signaling of the charging steps.
- Fast check of functions and times.
- Option to program the equilize charge automatically.
- Lab tested electronic circuit conforming to the directive on electromagnetic compatibility and CE marking.
- Automatic shutdown of the battery charger due to battery disconnection.
- Automatic Start.
- Complete with mains and battery cable.

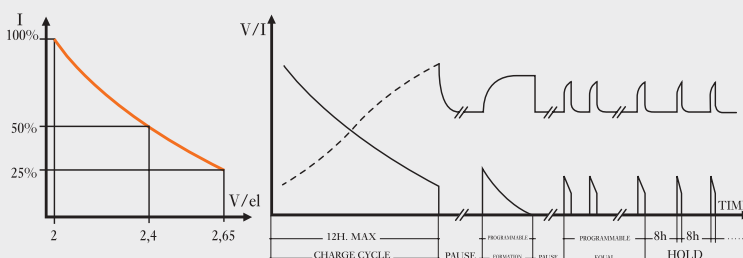


Box Dimensions

| | Type A | Type B |
|----|--------|--------|
| H: | 700 | 870 |
| L: | 470 | 470 |
| W: | 465 | 465 |



Characteristic Curves





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| Product Range | | | | | | | |
|---------------|--|--------------|-------|---------------------|-------|--------|------------------|
| Product Type | Battery Capacity (Ah) Charging Period (9-10 hr) | Voltage Main | P(kW) | Box Dimensions (mm) | | | Unit Weight (kg) |
| | | | | Length | Width | Height | |
| 24V-50A | 260-310 | 230 | 1.80 | 470 | 465 | 700 | 42.00 |
| 24V-60A | 320-370 | 230 | 2.20 | 470 | 465 | 700 | 44.00 |
| 24V-70A | 320-370 | 230 | 2.60 | 470 | 465 | 700 | 46.00 |
| 24V-80A | 375-500 | 230 | 3.00 | 470 | 465 | 700 | 47.00 |
| 24V-90A | 510-550 | 230 | 3.40 | 470 | 465 | 700 | 52.00 |
| 24V-100A | 500-625 | 230 | 3.70 | 470 | 465 | 700 | 55.00 |
| 24V-110A | 625-680 | 230 | 4.10 | 470 | 465 | 700 | 59.00 |
| 24V-120A | 625-750 | 230 | 4.40 | 470 | 465 | 700 | 61.00 |
| 24V-130A | 750-800 | 230 | 4.80 | 470 | 465 | 700 | 64.00 |
| 24V-140A | 750-875 | 230 | 5.20 | 470 | 465 | 700 | 66.00 |
| 36V-50A | 260-310 | 230 | 2.80 | 470 | 465 | 700 | 49.00 |
| 36V-60A | 320-370 | 230 | 3.40 | 470 | 465 | 700 | 50.00 |
| 36V-70A | 320-370 | 230 | 3.90 | 470 | 465 | 700 | 52.00 |
| 36V-80A | 375-500 | 230 | 4.40 | 470 | 465 | 700 | 54.00 |
| 36V-90A | 510-550 | 230 | 5.00 | 470 | 465 | 700 | 56.00 |
| 36V-100A | 500-625 | 230 | 5.60 | 470 | 465 | 700 | 62.00 |
| 48V-50A | 260-310 | 230 | 3.70 | 470 | 465 | 700 | 56.00 |
| 48V-60A | 320-370 | 230 | 4.40 | 470 | 465 | 700 | 57.00 |
| 48V-70A | 320-370 | 230 | 5.10 | 470 | 465 | 700 | 58.00 |
| 48V-80A | 375-500 | 230 | 5.90 | 470 | 465 | 700 | 61.00 |
| 48V-100A | 500-625 | 230 | 7.40 | 470 | 465 | 700 | 68.00 |
| 72V-50A | 260-310 | 230 | 5.10 | 470 | 465 | 700 | 67.00 |
| 72V-60A | 320-370 | 230 | 6.60 | 470 | 465 | 700 | 69.00 |
| 72V-70A | 320-370 | 230 | 7.70 | 470 | 465 | 870 | 71.00 |
| 80V-40A | 195-250 | 230 | 4.90 | 470 | 465 | 700 | 67.00 |
| 80V-50A | 260-310 | 230 | 6.20 | 470 | 465 | 700 | 68.00 |

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