

## trak | charger HF classic

High efficiency switch mode  
three phase charger

### Typical applications:

- charging of vented and GEL traction batteries
- charging batteries from 24 to 80 VDC
- charging batteries from 100 to 1.200 Ah

### Your benefits:

- the high efficiency (94% max.) leads to a significant reduction of costs
- low weight and volume for easy handling and placement
- also available with electrolyte circulation system (trak | air) for reduced electricity bills, reduced water consumption, reduced battery maintenance and improved battery life
- very low temperature increase upon operation leads to increased lifetime and low service costs



## Type overview **trak** | charger HF classic

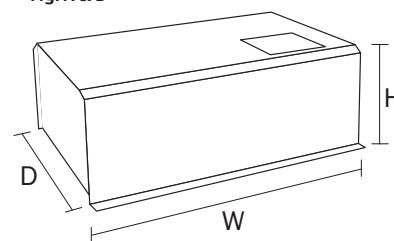
### Capacities, dimensions and weights

Type	Nominal Voltage	Nom. Mains current [A]	AC plug	DC cable [mm <sup>2</sup> ]	Dimensions	Weight <b>trak</b> basic [kg]	Weight <b>trak</b> air [kg]
<b>trak</b>   charger HF classic 24 - 70	24	3.4	CEE 16A 400V 3~	25	A	14.0	15.0
<b>trak</b>   charger HF classic 24 - 80	24	3.8	CEE 16A 400V 3~	25	A	14.0	15.0
<b>trak</b>   charger HF classic 24 - 90	24	4.3	CEE 16A 400V 3~	25	A	14.0	15.0
<b>trak</b>   charger HF classic 24-100	24	4.8	CEE 16A 400V 3~	25	A	14.0	15.0
<b>trak</b>   charger HF classic 24-120	24	5.8	CEE 16A 400V 3~	35	B	20.5	21.5
<b>trak</b>   charger HF classic 36 - 50	36	3.6	CEE 16A 400V 3~	16	B	20.5	21.5
<b>trak</b>   charger HF classic 36 - 60	36	4.3	CEE 16A 400V 3~	16	B	20.5	21.5
<b>trak</b>   charger HF classic 36 - 70	36	4.3	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 36 - 80	36	5.8	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 36 - 90	36	6.5	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 36-100	36	7.2	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 36-120	36	8.6	CEE 16A 400V 3~	35	B	20.5	21.5
<b>trak</b>   charger HF classic 48 - 50	48	4.8	CEE 16A 400V 3~	16	B	20.5	21.5
<b>trak</b>   charger HF classic 48 - 60	48	5.8	CEE 16A 400V 3~	16	B	20.5	21.5
<b>trak</b>   charger HF classic 48 - 70	48	6.7	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 48 - 80	48	7.7	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 48 - 90	48	8.6	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 48-100	48	9.6	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 48-120	48	11.5	CEE 16A 400V 3~	35	B	20.5	21.5
<b>trak</b>   charger HF classic 72 - 50	72	7.2	CEE 16A 400V 3~	16	B	20.5	21.5
<b>trak</b>   charger HF classic 72 - 60	72	8.6	CEE 16A 400V 3~	16	B	20.5	21.5
<b>trak</b>   charger HF classic 72 - 70	72	10.1	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 72 - 80	72	11.5	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 72 - 90	72	13	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 72-100	72	14.4	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 72-120	72	17.3	CEE 32A 400V 3~	35	B	20.5	21.5
<b>trak</b>   charger HF classic 80 - 50	80	8.0	CEE 16A 400V 3~	16	B	20.5	21.5
<b>trak</b>   charger HF classic 80 - 60	80	9.6	CEE 16A 400V 3~	16	B	20.5	21.5
<b>trak</b>   charger HF classic 80 - 70	80	11.2	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 80 - 80	80	12.8	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 80 - 90	80	14.4	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 80 - 100	80	16.0	CEE 16A 400V 3~	25	B	20.5	21.5
<b>trak</b>   charger HF classic 80 - 120	80	19.2	CEE 32A 400V 3~	35	B	20.5	21.5

### Technical Specifications:

- Incorrect battery voltage protection
- Deep discharge warning
- Random delay start after connection
- Time of day Start feature
- Multi-ampere-hour capability
- User selectable charging characteristics
- Safety timer
- Thermal protection
- Equalisation charge (fixed 10 h)
- Maintenance charge
- Adjustable gassing point
- Adjustable charge factor
- Battery disconnect shutdown
- LCD display
- Display with adjustable brightness
- Charge cycle review
- Instantaneous AC power absorption (kW)
- Input kilowatt hour feature (kWh)
- LED indication of charge status
- AC fail recovery protection
- Password protection
- Archive function
- Test mode

Fig. A & B



W x D x H [mm]  
476 x 290 x 202  
531 x 396 x 202

