



| Product overview: | |
|--------------------|-------------------|
| AC input voltage | 160/415VAC, 1/3ph |
| DC output voltage | 80-420VDC |
| Charge power | 3.0/9.0kW, 1/3ph |
| Nominal efficiency | 94% |

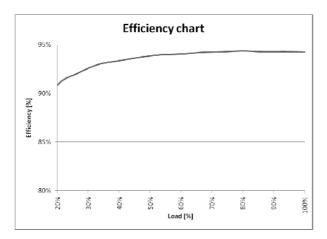
Discription

The **ISF-V1.4** battery charger from Dutch Power Train converts nominal 230V 1-Ph/ 400V 3-Ph AC voltage to 80-420V DC. As a power supply, its precisely controlled regulation allows the user to operate any appropriate nominal DC load up to the converter's rated output current. As a battery charger, the charger will maintain the battery, delivering its full-rated current when the battery capacity falls sufficiently low. The voltage is set to deliver its maximum current for a limited period of time, in order to minimize undue stress to the battery caused by heating of the cells. This helps to ensure the longest cycle-life of the battery. Over time, as the battery nears its full capacity, the converter will float-charge the battery to prevent self-discharge of its cells.

| | realures | | |
|---|---|--|--|
| | Specially designed charger for EV vehicle batteries | | |
| | BMS CAN and RS232 data configurable | | |
| | Configurable for battery packs of nominal 80V to 400V | | |
| | Compact design for on board installation | | |
| | Current limiting and thermal/overload protection | | |
| | CAN and RS232 communication for data logging | | |
| | Configurable communication outputs | | |
| Active air cooled, liquid cooled optional | | | |
| | 1 and 3-Phase supply possible | | |
| | | | |

Technical specifications

| Parameter | Value | | | Unit | | |
|--------------------------------------|-------|---------|-----|-----------------|--|--|
| | Min | Nom. | Max | | | |
| Input | | | | | | |
| Supply voltage | 160 | 230/400 | 415 | Vac | | |
| Power | | | 9.0 | kW | | |
| Phase Current | 4 | | 16 | Aac | | |
| Wiring diameter | | 2.5 | | mm² | | |
| Frequency | 47 | 50/60 | 63 | Hz | | |
| Output | | | | | | |
| Power | 0 | select | 9.0 | kW | | |
| Voltage | 70 | | 420 | Vdc | | |
| Current | 0 | select | 80 | Adc | | |
| Number of phases | 1 | 1/3 | 3 | - | | |
| Power connections | | 2 | | - | | |
| Wiring diameter | 4 | select | 25 | mm ² | | |
| Ports | | | | | | |
| CAN BMS input | | 1 | | | | |
| RS232 BMS input | | 1 | | | | |
| CAN data output to logger | | 1 | | | | |
| RS232 data output to logger | | 1 | | | | |
| 12V control to wake up BMS | | 1 | | | | |
| 12V to select charge current/voltage | | 2 | | | | |
| Enclosure | | | | | | |
| IP-rating | 00 | select | 40 | | | |
| Height | | 133 | | mm | | |
| Length | | 578 | | mm | | |
| Width | | 308 | | mm | | |
| Environment | | | | | | |
| Air humidity | 10 | | 100 | % | | |
| Ambient temperature | -20 | | 60 | °C | | |



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