



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%

Features

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

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.

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		mm ²
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

