ENTESTACDC015KW0750V

15kW 750V power module

The device was designed to charge batteries and power power-electronics devices. It is characterised by high efficiency, high power factor, high power density and high reliability. It contains 3-phase 4-wire AC input, DC voltage output range is from 150 to 750VDC with an output power of 15kW, compliant with CE EN61851-1 safety regulation, EN61851-23 requirements and EN61851-21-2 EMC regulation.

Product information

- Galvanic insulation
- Full Hot Plug construction
- High efficiency in the full range of load, efficiency for full load higher than 95,5%
- Wide range of output voltage, 150-750VDC, appropriate for the wide range of electric vehicles
- Direct current for higher output power with a low output voltage
- Internal, intelligent discharge system – automatically discharge remaining charge by simplifying the construction of systems
- Low power consumption in the standby mode, less than 9 W
- 3-phase without the neutral wire eliminate the risk of high neutral currents
- 3-phase correction of the active power factor technology, lowers the harmonic disturbances in the network.
- Wide range of input voltage, 260 ~ 530Vac, allows to operate in the worst network conditions

Safety

- Compliance with CE
- Regulations: EN61851-21-2, B class

Technical specification

Parameter		Unit	Area V
Input side	Frequency range	Hz	45 - 65
	Input voltage range	W	3L+PE, 260-530 (AC)
	Power factor	-	0.99
	Maximum input current	A	30
	ITHD	%	≤ 5
	Efficiency (top)	%	≥94, @750VDC/50%-100% load current, Max point ≥95.5%
Output side	Output power	kW	15 @voltage>600V DC
	Voltage range	VDC	150-750
	Current range	A	0-25
	Current sharing	A	< ± 0,5
	Voltage stability	%	< ± 0,5
	Current stability	%	≤ ± 1 (output power in 20% ~ 100%)
Environment/ mechanical	Surrounding temperature	°C	-40 ~ +75, lowering the parameters from 55
	Storage temperature	°C	- 40 ~ +75
	Humidity	%	≤95, RH, without condensation
	Cooling		Air
	Height	m	2000
	Weight	kg	≤ 11
	Dimensions height x width x length	mm	84 x 226 x 395

Technical data		specification
Control	Communication	CAN Bus, Max 48 modules powered in parallel
	Signal lamp	Green LED diode: normal operation, yellow LED diode: alarm, red LED alarm diode: malfunction
	Indication of the address	Automatic address identification, choosing the panel to set switch
Alarm and security	Input/output voltage protection	Beyond the voltage range, the product will switch off automatically and switch on, when the voltage will return to normal
	Overcurrent/short-circuit protection	Automatic shutdown and blockade, in order to switch on again and need to unlock switching off of the device
	Overheating protection	Automatic shutdown, automatic start, when the temperature returns to normal
EMC/EMI	TUV CE certificate	EN61851-21-2, B class
Safety	Safety	Compliance with CE
Reliability	MTBF	>500,000h

* the manufacturer reserves the right to make changes to the parameters and appearance of the product