



15KW Bi-Directional Power Supply Module (500V/750V)

Deltrix offers a range of standard 15KW Bi-Directional Power Modules that are suitable for EV chargers with a 3-phase AC Input. The compact Power Modules can be configured for a 'bidirectional' or 'Charger only' operation. Output Voltage and Current can be controlled and monitored by a CAN Bus Interface. The dual-mode functionality makes it possible to charge electric or plug-in hybrid electric vehicles and export power from the vehicle for general use and to the Grid.

Features

- High power density (15KW) in a small form factor that saves space.
- Wide range of input voltage from 232 to 437V.
- Input power factor can reach 0.99, the efficiency can reach over 93%.
- Ultra-wide range of output voltages from 200 to 750VDC or 200 to 500VDC to meet various voltage demands of different batteries.
- Standard CAN Bus communication interface.
- Input over voltage protection.
- Under voltage alarming.
- Output over current and short circuit protection functions.
- Multiple modules in parallel for redundancy.
- Forced Air Cooling



Applications

- EV Charger Parks
- Modular EV Fast Chargers
- Industrial Battery Chargers
- Industrial Current Source (Power Supply / DC Load)
- Smart Grid and Peak Shaving (V2G Home Charger)

Technical Specifications

		DT15AD01B	DT15AD02B
Electrical	Description	Bi-Directional Charger/Inverter	Bi-Directional Charger/Inverter
	Direction	Bi-Directional	Bi-Directional
	Power Rating: AC to DC	Converter 15KW Inverter 10KW	Converter 15KW Inverter 15KW
	Power Rating: DC to AC	Converter 15KW Inverter 10KW	Converter 15KW Inverter 15KW
Input	Input Voltage: AC Side	323 to 437V	304 to 456V
	Input Current: AC to DC	0-30A	0-30A
	Input Current: DC to AC	0-20A	0-30A
	Input Frequency	45 – 65 Hz	45 – 65 Hz
	Full Load Efficiency	≥93	≥93
Output	Output Current: AC to DC	0-25A	0-30A
	Output Current: DC to AC	0-20A	0-30A
	Output Voltage: DC Side	200 to 750V	200 to 500V
	Output ripple and noise	≤±1%Vo	≤±1%Vo
Protection	Power factor correction	Yes	Yes
	Over/under voltage protection	Yes	Yes
	Lost phase alarm	Yes	Yes
	Output over current protection	Yes	Yes
	Output over voltage protection	Yes	Yes
	Output short circuit protection	Yes	Yes
	Over temperature protection	Yes	Yes
General	N+1 parallel operation	Yes	Yes
	Current sharing	Yes - ≤±5%	Yes - ≤±5%
	Cooling	Fan cooled	Fan cooled
	IP Protection	IP20	IP20
	Operating Temperature	-40—+60°C	-40—+60°C
	Acoustics noise	≤55dB	≤55dB
	MTBF	≥250Khours	≥250Khours
	THDI	>3%	>3%
	Interfacing	CAN Bus	CAN Bus
	Dimensions (H x W x D)	84mm x 306mm x 450mm	84mm x 306mm x 450mm
	Weight	11.5KG	11.5KG
	CE Approval	No (Pending)	Yes

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