

DU30ADxxxxM - 30KW EV Charging Module

Product Description

The Deltrix 30KW EV Modules are highly efficient (up to 96%) power supplies that adopt the latest power electronics technology. They were designed specifically for DC Chargers targeted at Electric Vehicles and offer active power factor correction, green ultra-high efficiency, high power density, High reliability, and intelligent control. The modules use forced air-cooled heat sinks and have a small form factor. Hot swapping with built-in anti-battery reverse current protection circuit is also supported.



Key Features

- Ultra-high efficiency > 96%, rated efficiency > 95.5%
- Compatible with the CCS and CHAdeMO Standards
- Compact Form Factor (H*W*D): 300mm*84mm*437.5mm
- Ultra-high-power density: up to 45W/in³
- Ultra-wide output voltage range: from 200VDC ~ 1000VDC
- Ultra-small output ripple voltage, peak-to-peak ripple = 2V
- Ultra-small standby power consumption: ~10W
- Complete protection and alarm functions: input over/under voltage, output over voltage, over current, Over-temperature protection, output under-voltage alarm, output short circuit protection
- LED display configurable to display voltage, current, group, protocol, address, manual or automatic, fault information
- CAN Bus and RS485 communications
- DSP digital control and supports voltage and current adjustments
- Built-in anti-battery reverse current protection circuit that supports Hot-Swapping
- Automatic identification and verification of new addresses without manual intervention
- Built-in output voltage bleeder circuit

Product Specifications

Models	DU30AD1000M	DU30AD750M	DU30AD500M	
DC Output	Output	1000V/30A	750V/40A	500V /60A
	Output rated power	30KW		
	Output voltage range	150~1000V	200~750V	200~500V
	Output current range	0~100A	0~50A	0~80A
	Output overvoltage protection	1010±5V	760±5V	510±5V
	Output undervoltage alarm	190V±2V	190V±2V	190V±2V
	Short circuit protection	In event of a short circuit, module can automatically restore.		
	Output voltage tolerance	≤±0.5%		
	Load sharing	≤±3%		
	Max. startup overshoot	≤±1%		
	THD	≤5%		
	Boot time	Start time 3s≤t≤8s		
	Efficiency	Highest efficiency>96%, rated efficiency>95.5%		
	AC input	Input voltage	304VAC~485VAC	
Input frequency		45Hz~65Hz		
Number of phases		Three-phase + Protected earth wire		
Power factor		Rated output load PF≥0.99		
Max. input current		<60A		
Input undervoltage protection		255V ±5V, Hysteresis ≥15V		
Input overvoltage protection		490V ±5V, Hysteresis ≥15V		
Input power limit		Input voltage Vin is 304V ±5V~260V±5V, output power is derated linearly to 50%		
Communication & Alarm	Communication	CAN & RS485		
	Max. No. of parallel machines	60		
	Alarm and status	Report to monitor via CAN bus or 485 bus; Display it on LED panel		
Operating Environment	Operating temperature	From -30°C to 65°C		
	Over temperature protection	On temperature >70°C±4°C or <-40°C±4°C, module will shut down automatically		
	Storage temperature	From -40°C to 85°C		
	Humidity	≤95% without condensation		
	Pressure	79kPa~106kPa		
Physical Characteristics	Noise	<55dB		
	cooling method	Fan cooling		
	Dimensions (H*W*D)	300mm *84mm *437.5mm		
	Weight	<15Kg		
	MTBF	120000 hrs (at 40°C)		

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