

# 960kW Power Unit

## EVD-960SF



### More Efficient

- $\geq 96.5\%$  peak system efficiency using SiC high-efficiency modules
- Unique airflow design and sound-absorbing materials to reduce noise
- Compatible with fast and ultra-fast dispensers to suit various EVs



### More Intelligent

- Smart efficiency optimization reduces system energy loss
- Smart power optimization maximizes operational efficiency
- Single-module smart switching with up to 24 output circuits
- Balanced charging module runtime extends overall system lifespan



### More Reliable

- Automotive-grade manufacturing ensures durability in harsh environments
- 40+ protection and alarm functions for better overall safety
- Module in-position detection enhances reliability
- Advanced three-phase imbalance control for complex grid conditions



### Easy O&M

- Smart O&M management with online OTA upgrade
- Supports Interactive data upload platform and fault logging
- Slide-out G3 dust filter reduces maintenance time to under 5 minutes

# Technical Specification

Technical parameters		EVD-960SF
AC INPUT	Rated voltage	400/480VAC (option)
	Input voltage range	323-530VAC
	AC input connection	3P + N + PE
	Frequency range	45-66 Hz
	PF	≥0.99
	THDi	≤5%(More than half load)
DC OUTPUT	DC output voltage range	150~1000Vdc
	Output power	960kW
	Max. output current	0-3200A
	Single maximum output current	250A
	Max. number of output	500A*2 or 250A*24
	Min. power allocation step	40kW
	Power distribution	Intelligent distribution, When dual-cabinet expansion, the power is shared between the two cabinets.
	Voltage regulation accuracy	≤±0.5%
	Current regulation accuracy	≤±1%
	Output voltage ripple	Ripple voltage peak coefficient < 1%, Effective value coefficient <0.5%
WARNING & PROTECTION	Over-temperature protection	Yes
	Input over/under voltage protection	Yes
	Maintenance door open for protection	Yes
	Output short circuit protection	Yes
	Parallel contactor fault protection	Yes
	Emergency stop protection	Yes
	SPD failure protection	Yes
	Filter dust warning	Yes
OTHERS	Peak efficiency	≥96.5%
	Noise level	≤65dB(Rated conditions, 25°C, 1m distance)
	Indicator light	Power on/off, Charging, Fault
	Network connection	Ethernet/4G
	Ventilation	Air-cooling
	Type of communication	CAN, 250 kbit/s
	EMC	Class A
	Reference standard	IEC 61851-1, IEC 61851-23, IEC 61851-21-2, UL 2202
	Certification	Complies with CE and UL certification standards
ENVIRONMENT	Operating altitude	≤ 2000m
	Operating temperature	-30 ~ 60°C(derating output for temperature over 50°C)
	Storage temperature	-40 ~ 70°C
	Relative humidity	5% ~ 95% (non-condensable )
MECHANICAL SPECIFICATIONS	IP level	IP54
	IK level	IK10
	Size (W x D x H)	2000×850×1700mm
	Option	·Smoke sensor · Dehumidifer · Immersion detection · RCD breaker