

Power Module

The EN Plus 30kW DC power module is a top industrial solution designed specifically for large EV chargers. It utilizes cutting-edge power electronics technology, resulting in an impressive 96.2% efficiency and just 6W standby power consumption. This translates to significant energy savings and a reduced environmental impact. The module's ultra-wide constant output voltage range guarantees compatibility with all EV models. Its unique protection design enhances reliability and extends the service life of EV chargers, while the remote OTA function reduces operating costs for users. The module has passed TÜV CE certificate and meets EMC CLASS B requirements, ensuring its quality and safety.



≤6W
Standby Power

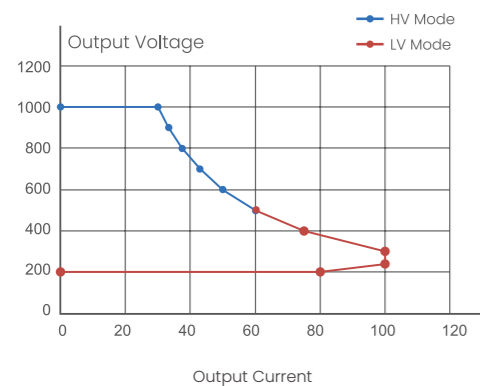
96.2%
Efficiency

-40°C~+75°C
Working Temperature

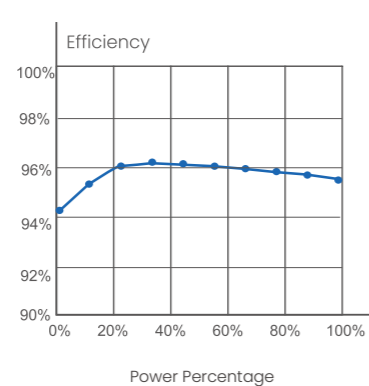
200~1000VDC
Wide Output Voltage Range



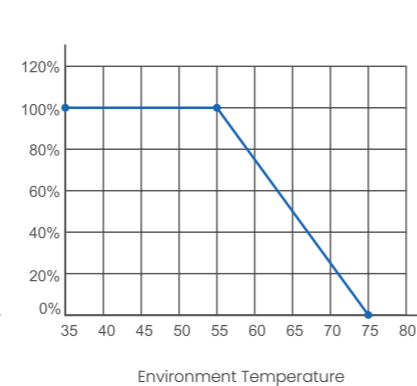
Input and Output Characteristic Curves



Efficiency Curve



Temperature Limit Power Curve



Power Module

Datasheet	Model	DCM1000100E
Input	Power Supply	3P+PE
	Rated Voltage	260-470V AC
	Max. Input Current	60A
	Frequency	50/60Hz
	Standby Power	≤6W
Output	Maximum Power	200-1000V DC
	Max. Current	100A
	Rated Power	30kW
	Constant Power	300-1000V DC
Electrical Parameter	Power Factor	≥0.99@50%-100% Loading
	THD	≤5%@100% Loading
	Efficiency	Max 96.2%
	Steady Voltage Accuracy	±0.5%
	Steady Current Accuracy	±1%
	Voltage Deviation	±0.5%
	Current Deviation	±0.15A@ Load Current<15A, ±1 Load Current≥15A
	Ripple Factor	Peak Factor≤1%, RMS Factor<0.5%
	Soft Start Time	≤6s
	User Interface	Enclosure
LED Indicator		Green / Yellow / Red
Communication	Configuration	Manual/Auto
	Protocol	CAN
Safety	Ingress Protection	IP20
	Electrical Protection	Over current protection, Residual current protection, Short circuit protection, Surge protection, Over / Under voltage protection, Over/Under frequency protection, Over / Under temperature protection
	Certification	CE / TUV Mark / CB / UKCA / RoHS
	Certification Standard	EN IEC 61851-1:2019 IEC 61851-21-2:2021 Class B EN 61851-23:2014
	Warranty	2 Years
EMC/EMI	Standard	EN IEC 61851-21-2:2021 Class B
Environment	Installation	Slots
	Cooling Method	Smart Air Cooling
	Noise	≤65dB@25°C 100% loading
	Work Temperature	-40°C ~ +75°C (derate > 55°C)
	Work Humidity	5%-95%
Package	Work Altitude	<2000m
	Product Dimension	455*300*94mm (W*D*H)
	Package Dimension	564*380*72mm (L*W*H)
	Net Weight	17.0kg
	Gross Weight	18.0kg
External Package		Carton