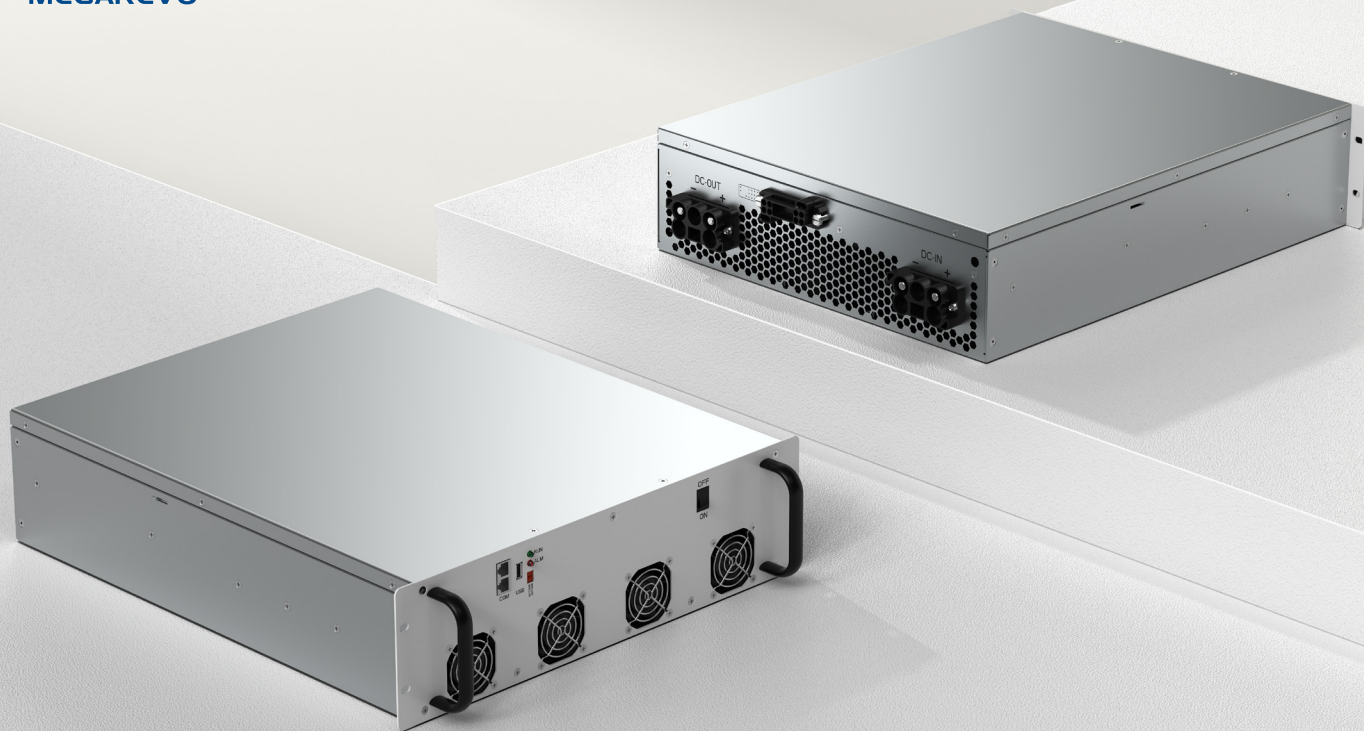




PMD Series Products

PMD-G3 DCDC Module

75kW

KEY FEATURES

- World's First Bidirectional Buck-Boost Capability
- Ultra-Fast Protection Response: $\leq 3\text{ms}$
- Wide Voltage Range: 250-1000VDC (Input / Output)
- Current / Voltage Sampling Accuracy: Error $<1\%$
- MPPT Efficiency Up to 99.99%
- High Power Density: 2.55MW/m^3

Model	PMD-75-G3
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DC Data

Rated Power (kW)	75
Max. Power (kW)	82.5
MPPT Channels	1 (Centralized 75kW Design)

PV Data

Operating Voltage Range (V)	250~1000
Full-Load Voltage Range (V)	550~950
Max. Operating Current (A)	135
MPPT Tracking Accuracy	≥99.9%
PV Start-up Voltage (V)	250

Output Data

Voltage Range (V)	250~1000
Full-Load Voltage Range (V)	550~950
Max. Operating Current (A)	135

Protection Data

Over/Under Voltage Protection (Both Ports)	Supported
Overcurrent Protection (Both Ports)	Supported
Open-Circuit Protection (Both Ports)	Supported
Overtemperature Protection	Supported
Lightning Protection	Supported
Insulation Impedance Detection	Supported
Short-Circuit Protection	Supported
Isolation Method	Non-Isolated

General Data

Max. Efficiency	99%
Operating Temperature Range (°C)	-30~60 (>45 Derating)
Operating Altitude (m)	> 3000 Derating
Relative Humidity	≤95% (Non-condensing)
IP Rating	IP20
Noise Level (dB)	≤65 @1m
Cooling Method	Temperature-Controlled Smart Forced Air
Dimensions L*W*H (mm)	550*444*133
Weight (kg)	30
Mounting Method	Cabinet Fixed Installation

Communication Data

Communication	485, CAN
BMS Interface	Supported

Other Data

Voltage Accuracy	< 1%@100%Pn
Current Accuracy	< 1%@100%Pn
Standby Power Consumption (W)	< 20