



Introduction

The HLEC-MC Series high voltage MCU, developed by Hengli with 30 years of off-road machinery expertise, integrates MCU and PDU modules. It features high integration, power density, efficiency, vibration resistance, and reliability.

Applications



Widebody
mining truck



Mining
dump truck



Reach stacker



Empty container
handler



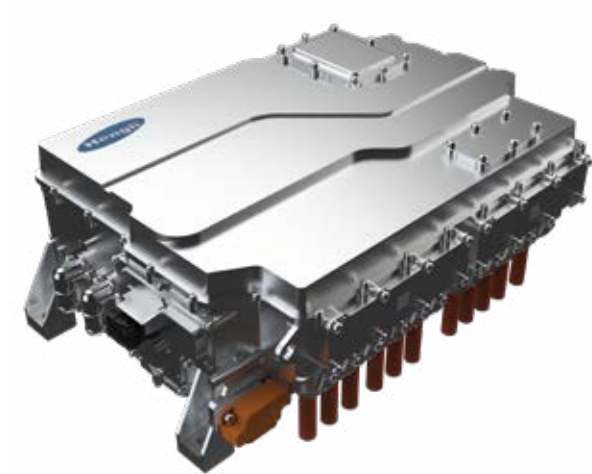
Heavy-duty
forklift

General specifications

Operating voltage VDC	400-750V
Rated voltage VDC	600V
Operating temperature	- 40°C ~ +85°C
IP rating	IP67
Operation altitude	≤ 5500m
Size	646×533×168mm

Technical specifications

Traction MCU	Option 1	Option 2	Option 3	Option 4
Rated output power	250kW	360kW	125kW (x2)	150kW (x2)
Peak output power	400kW@60S	500kW@60S	250kW@60S (x2)	300kW@60S (x2)
Rated output current	470A	600A	280A (x2)	325A (x2)
Peak output current	850A@60S	1120A@60S	560A@60S (x2)	650A@60S (x2)
Efficiency	99%	99%	99%	99%



Introduction

The HLEC-MC-I Series high voltage multi-in-One MCU, developed by Hengli with 30 years of off-road machinery expertise, integrates MCU×3, DCAC×2, DCDC, and PDU modules. It features high integration, power density, efficiency, vibration resistance, and reliability.

Applications



Loader



Excavator



Mining dump truck



Widebody mining truck



Empty container handler



Reach stacker



Heavy-duty forklift

General specifications

Operating voltage VDC	400-750V
Rated voltage VDC	600V
Operating temperature	— 40℃~ +85℃
IP rating	IP67
Operation altitude	≤ 5500m
Size	675×501×266mm

Technical specifications

Traction MCU	Option 1	Option 2
Rated output power	250kW+125kW	125kW (x3)
Peak output power	400kW+250kW@60s	250kW@60s (x3)
Rated output current	470A+280A	280A (x3)
Peak output current	850A+560A@60s	560A@60s (x3)
Efficiency	≥ 99%	≥ 99%

DCDC	Option 1	Option 2
Rated output power	4.5kW	6kW
Peak output power	5kW	6.6kW

DCAC	Option 1	Option 2
Rated output power	7.5kW	10kW
Peak output power	15kW	22kW