MPMC BEY#ND ENERGY

MODEL: MDS400(S)-2

Powered by Doosan

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Model

Length (L) mm

Width (W) mm

Height (H) mm

Dry weight (kg) Tank capacity (L)

The loading capacity (40'HC)





Applicable Standards

- ISO 8528-5:2018
- GB/T2820.5-2009
- CE

General Information		Prime power	Standby power	
Rated Power (kVA)		450	500	
Power Rating (kW)		360	400	
Frequency (Hz)		60		
Engine Model		P158LE		
Engine Speed (RPM)		1800		
Phase		3		
PF		0.8		
Control System		Digital		
Rated voltage (V)		440/254 (According to customer requirements)		
Fuel tank capacity operating time		≥ 8h @ 75% load		
Fuel Consumption (L/h)	110% load	98.2		
	100% load	89.3		
	75% load	66.9		
	50% load	44.7		
L		L		
		MPMC		

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MDS400-2

Open type

3210

1390

1890

2860

600

3 units

Dimension and Weight

7**w**

MDS400S-2

Silent type

4300

1822

2250

4510

1200

2 units

Ambient temperature: +5°C~+40°C Altitude: ≤1000m

Environmental Conditions

Remark: If your conditions are different from the above, please contact our sales.

Factory Inspection

- Complete design and quality inspection
- 0%, 25%, 50%, 75%, 100%, 110% load test.
- Function test.
- Protection test

Painting Process

- MPMC has the most advanced automatic spraying / powder coating production line, and is equipped with various sandblasting equipment to ensure higher quality.
- Canopy painting: Henkel pretreatment process and world famous brand AkzoNobel powder.
- Base Frame painting: Sandblasting process and AkzoNobel powder (Hempel paint is optional).

fied	IS014001 System certification	OHSAS18001 System certification	



Note: Specifications and illustrations are subject to revision without notice.

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Engine Specifications

Engine model & manufacturer		P158LE(Doosan)	
Emission Certification			
Number of cylinders		8	
Cylinder arrangement		In-line	
Cycle		Four stroke	
Aspiration		Turbocharger	
Bore x Stroke		128 x 142 mm	
Displacement		14.618 L	
Compression ration		15:1	
Prime power /speed		402 kW/1800 rpm	
Standby power /speed		458 kW/1800 rpm	
Speed governor		Electric	
Cooling system		Forced Water Cooling Cycle	
Frequency droop		≤ 5%	
Total lubrication system capacity		21 L	
Coolant capacity (engine only)		20 L	
Fuel consumption	100% load	209.1 g/kWh @1800 rpm	
Starter motor		DC 24V	
Charge alternator		DC 24V	
Heavy duty diesel engine		 Starter battery (with lead acid) including rack and cables 	
 Anti-vibration mount 		 Flexible fuel connection hoses 	
 Replaceable fuel filter, oil filter & air filter 		 Exhaust silencer and bellows 	
 Cooling radiator and fan 		Operation manuals and circuit diagram documents	

• Cooling radiator and fan

Operation manuals and circuit diagram documents

Alternator Specifications

Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Bearing	Single bearing
Voltage regulator	A.V.R
Coupling	Flexible disc

MPMC BEY#ND ENERGY

Control Panel

DSE 4520 MKII

Auto start and auto mains failure control module (Alternator frequency & can speed sensing)



Key features

- Auto Start and AMF mode in one module.
- J1939-75 support and CAN alarm ignore function.
- Alternator frequency & CAN speed sensing in one variant.
- Largest back-lit icon display in its class.
- Heated display option.
- Real time clock provides accurate event logging.
- Fully configurable via the fascia or PC using USB communication.
- Extremely efficient power save mode.
- 3 phase generator sensing.
- 3 phase mains (utility) sensing
- Compatible with 600 V ph to ph nominal systems.
- Generator/load power monitoring (kW, kVA, kVar, PF).
- Accumulated power monitoring (kWh, kVAh, kVarh).
- Generator overload protection.
- Generator/load current monitoring and protection.
- Fuel and start outputs (configurable when using CAN).
- 4 configurable DC outputs.
- 3 configurable analogue/digital inputs

Key benefits

- Ultimate size to feature ratio.
- Automatically transfers between mains (utility) and generator.
- Hours counter provides accurate information for monitoring and maintenance periods.
- User-friendly set-up and button layout for ease of use.
- Multiple parameters are monitored simultaneously which are clearly displayed on the largest back-lit icon display in its class.
- The module can be configured to suit a wide range of applications.
- Compatible with a wide range of CAN engines including Tier 4.
- IP65 rating (with optional gasket) offers increased resistance to water ingress.
- 4 configurable digital inputs.
- Configurable staged loading outputs.
- 3 engine maintenance alarms.
- Engine speed protection.
- Engine hours counter.
- Engine pre-heat.
- Engine run-time scheduler.
- Engine idle control for starting & stopping.
- Tier 4 engine instrumentation screens.
- Battery voltage monitoring.
- Start on low battery voltage.
- Configurable remote start input.
- 1 alternative configuration.
- Comprehensive warning, electrical trip or shutdown protection upon fault condition.
- LCD alarm indication.
- Event log (50)

Options

Engine	Alternator	Fuel System	Generating Set
 Water Jacket Preheater Oil Preheater Oil manual pump 	 PMG excitation Space heater Winding temperature measuring 	 12 / 24 hour base tank Bunded fuel tank External fuel tank Automatic fuel feeding Switch between external tank and base tank (three-way valve) 	 Deepsea, ComAp, Smartgen etc. controller Trailer Tools with the machine





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