## MPMC BEY#ND ENERGY

## MODEL: MDS690(S)-1

Powered by Doosan

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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)		690	760
Power Rating (kW)		552	608
Frequency (Hz)		50	
Engine Model		DP222LB	
Engine Speed (RPM)		1500	
Phase		3	
PF		0.8	
Control System		Digital	
Rated voltage (V)		400/230 (According to customer requirements)	
Fuel tank capacity operating time		≥ 8h @ 75% load	
Fuel Consumption (L/h)	110% load	161.8	
	100% load	147.1	
	75% load	110.3	
	50% load	73.6	
		MPMC	L

7**w Dimension and Weight** MDS690-1 MDS690S-1 Model Open type Silent type Length (L) mm 3890 5000 Width (W) mm 1650 2022 Height (H) mm 2276 2541 4330 7640 Dry weight (kg) 1 Tank capacity (L) 1500

3 units

2 units

Н

## **Factory Inspection**

● Altitude: ≤1000m

sales.

Complete design and quality inspection

**Environmental Conditions** Ambient temperature: +5°C~+40°C

• 0%, 25%, 50%, 75%, 100%, 110% load test.

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

- 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).





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

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## **Engine Specifications**

Engine model & manufacturer		DP222LB(Doosan)	
Emission Certification			
Number of cylinders		12	
Cylinder arrangement		V-type	
Cycle		Four stroke	
Aspiration		Turbocharger	
Bore x Stroke		128 x 142 mm	
Displacement		21.927 L	
Compression ration		15:1	
Prime power /speed		604 kW/1500 rpm	
Standby power /speed		664 kW/1500 rpm	
Speed governor		Electric	
Cooling system		Forced Water Cooling Cycle	
Frequency droop		≤ 5%	
Total lubrication system capacity		40 L	
Coolant capacity (engine only)		23 L	
Fuel consumption	100% load	207 g/kWh @1500 rpm	
Starter motor		DC 24V	
Charge alternator		DC 24V	
Heavy duty diesel engine		<ul> <li>Starter battery (with lead acid) including rack and cables</li> </ul>	
<ul> <li>Anti-vibration mount</li> </ul>		<ul> <li>Flexible fuel connection hoses</li> </ul>	
<ul> <li>Replaceable fuel filter, oil filter &amp; air filter</li> </ul>		Exhaust silencer and bellows	
<ul> <li>Cooling radiator and fan</li> </ul>		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
<ul> <li>Water Jacket Preheater</li> <li>Oil Preheater</li> <li>Oil manual pump</li> </ul>	<ul> <li>PMG excitation</li> <li>Space heater</li> <li>Winding temperature measuring</li> </ul>	<ul> <li>12 / 24 hour base tank</li> <li>Bunded fuel tank</li> <li>External fuel tank</li> <li>Automatic fuel feeding</li> <li>Switch between external tank and base tank (three-way valve)</li> </ul>	<ul> <li>Deepsea, ComAp, Smartgen etc. controller</li> <li>Trailer</li> <li>Tools with the machine</li> </ul>





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