## MPMC BEY#ND ENERGY

## Model: MYC500(S)-1

Powered by YuChai

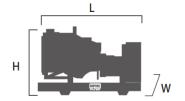


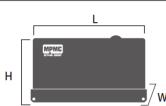


### **Applicable Standards**

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

General Information		Prime power	Standby power
Rated Power (kVA)		500	550
Power Rating (kW)		400	440
Frequency (Hz)		50	
Engine Model		YC6T660-D31	
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	126.5	
	100% load	113.8	
	75% load	86.5	
	50% load	59.7	





Dimension and Weight				
Model	MYC500-1 Open type	MYC500S-1 Silent type		
Length (L) mm	3550	4400		
Width (W) mm	1400	1422		
Height (H) mm	1850	2430		
Dry weight (kg)	3600	4500		
Tank capacity (L)	650	700		
The loading capacity (40'HC)	3 units	2 units		

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

### **Environmental Conditions**

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

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).









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## **Engine Specifications**

Engine model & manufac	cturer	YC6T660-D31 (YuChai)
Emission Certification		China Tier III
Number of cylinders		6
Cylinder arrangement		In-line
Cycle		Four stroke
Aspiration		Turbocharged
Bore x Stroke		145 x 165 mm
Displacement		16.35 L
Compression ration		15 : 1
Prime power /speed		441 kW/1500 rpm
Standby power /speed		485 kW/1500 rpm
Speed governor		Electronic
Cooling system		Forced Water Cooling Cycle
Frequency droop		≤ 3%
Total lubrication system capacity		54 L
Coolant capacity (engine only)		34 L
Fuel consumption	100% load	215.5 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>
Anti-vibration mount		<ul> <li>Flexible fuel connection hoses</li> </ul>
• Replaceable fuel filter, oil filter & air filter		<ul> <li>Exhaust silencer and bellows</li> </ul>
Cooling radiator and fan		<ul> <li>Operation manuals and circuit diagram documents</li> </ul>

## **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 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.

#### **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

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- · 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>PMG excitation</li><li>Space heater</li><li>Winding temperature measuring</li></ul>		<ul> <li>□ Deepsea, ComAp, Smartgen etc. controller</li> <li>□ Trailer</li> <li>□ Tools with the machine</li> </ul>





















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