



**MULTIPHASE
POWER**

Diesel Generator Set

MPY1650P

Powered By Perkins



50 Hz / 1500 RPM



MULTIPHASE CORPORATION CO., LTD.

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MPY1650P



MODEL	FREQUENCY / RPM	STANDBY POWER	PRIME POWER
MPY1650P Powered by Perkins	50 Hz/1500 RPM	1320 kW	1200 kW
		1650 kVA	1500 kVA

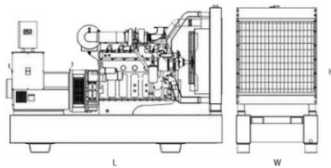
- Available for voltages 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V
- All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29.53 inHg), air temperature 25 °C (77 °F), relative humidity 30%.
- Diesel generators comply with standards : ISO8528, ISO14000, ISO3046, GB755, BS5000, VDE0530, IEC34-1
- Model : MPYxxCS – S Suffix for silent type

GENERAL CHARACTERISTICS

Model	MPY1650P
Engine	Perkins 4012-46TAG2A
Alternator	Stamford SLG454C
Voltage (V)	400/230
Current (A)	2165
Connection	3P 4W/Y
Frequency	50 Hz
Engine Speed (RPM)	1500
Rated Power Factor	0.8
Controller Model	DSE7320

DIMENSIONS

DIMENSIONS	OPEN TYPE	SILENT TYPE
Length (L)	5100 mm	6058 mm
Width (W)	2220 mm	2438 mm
Height (H)	2350 mm	2896 mm
Net Weight (KG)	11580 kg	15580 kg



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STANDARD CONFIGURATION

Engine	Perkins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.
Alternator	Stamford brushless AC alternator
Radiator	40 °C, fan protective shroud
Base Frame	≤ 520 KW : base mounted fuel tank, anti-vibration pads, battery holder > 520 KW : channel steel base frame, anti-vibration pads, battery holder
Circuit Breaker	ABB BREAKER
Control System	DEEP SEA 7320
Start Battery	Dry charged battery, available for 6 times starts under standard condition; connection cables.
Installation Accessories	Bellow, Elbow and Flange, Exhaust Silencer, etc.
Documents	Electric drawing, Operation & Maintenance Manual, Certification etc.

OPTIONAL CONFIGURATION

Engine Accessories	<ul style="list-style-type: none"> • Heavy-Duty Air Filter • Coolant Heater • Lube Oil Heater • Fuel and Water Separator
Alternator and Accessories	<ul style="list-style-type: none"> • Stamford or Leroy Somer or Others
Cooling System	<ul style="list-style-type: none"> • High Voltage ___ kV • 50 °C Radiator • Heat Exchanger + Water Cooling Tower + External Water Circulation Pumping System • Remote Horizontal Water Tank System
Control System	<ul style="list-style-type: none"> • AMF • Parallel • Practical Type in Low Temperature Environment • Control Screen Heater • Other
Circuit Breaker	<ul style="list-style-type: none"> • ¾ Poles • Fixed/Handcart Type • Electric Mechanism
Automatic Transfer Switch	<ul style="list-style-type: none"> • ATS Cabinet
Start Battery	<ul style="list-style-type: none"> • Nickel-Cadmium Battery • Maintenance-Free Battery • Power Charger and Selector • Charging Current Meter
External Fuel Tank	<ul style="list-style-type: none"> • 500 L, 1000 L, 1500 L, 2000 L, 2500L, 3000L, 4000L, 5000L

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ENGINE DATA

Engine Model	Perkins 4012-46TAG2A
Engine Power	1395 kW.
Aspiration	Turbocharged, Air to Air Charge Cooled
Displacement (L)	30.561
Type	60 °Vee
Bore x Stroke (mm)	160 x 190
No. of Cylinders	12
Compression Ratio	13.6 : 1
Governor Type	Electric
Rated Speed (RPM)	1500
Prime Power Fuel Consumption (L/h)	310
Standby Power Fuel Consumption (L/h)	341
Fuel	ASTM D975 No.2-D or BS2869 1998 Class A1, A2
Injection System	N/A
Lube Oil Capacity (L)	177.0
Lube	API : CG SAE : 15W40
Max. Temperature (°C)	105
Coolant Capacity (L)	201.0
Max. Top Tank Temp. (°C)	98
Std. Thermostat (Modulating) Range (°C)	71-85
Fan Drive Method	Shaft Drive
Cooling Fan Air Flow (m ³ /min)	1212
Combustion Air Flow (m ³ /min)	100/110
Maximum Air Intake Restriction (kPa)	4
Exhaust Gas Flow (m ³ /min)	280
Max. Back Pressure (kPa)	5
Exhaust Gas Temp (°C)	≤ 470
Exhaust Pipe Size (mm)	φ 254 x 2
Start Mode	DC24V Electric Start
Battery	4 x 200 Ah

ALTERNATOR DATA

Alternator Model	Stamford SLG454C	Rate Power	1328/1660 kW/kVA
PF.	0.8	Voltage	400/230 V
Phase	3	Frequency	50 Hz.
Connection	3P 4W/Y	Bearing	1
Winding Pitch	2/3	Protection Class	IP23
Insulation Class	H	Efficiency	95.5%
Tel. Influence	TIF < 50	Voltage Regulation	±0.5%
Harmonic Coefficient	THF < 2%	AVR	MX321
Voltage Adjust Scope	≥±5%	Excitation System	PMG

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CONTROL SYSTEM DATA (DSE7320)



Main Feature

The DSE7320 will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet® terminals for system expansion.

Key Function

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Integral PLC editor
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt. sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Power monitoring (kWh, kVAR, kVAh, kVArh)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer (DSE7320)
- Backed up real time clock
- Start & stop capability via SMS messaging
- USB connectivity
- Tier 4 CAN engine support
- DSENet ® expansion compatible etc.

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