



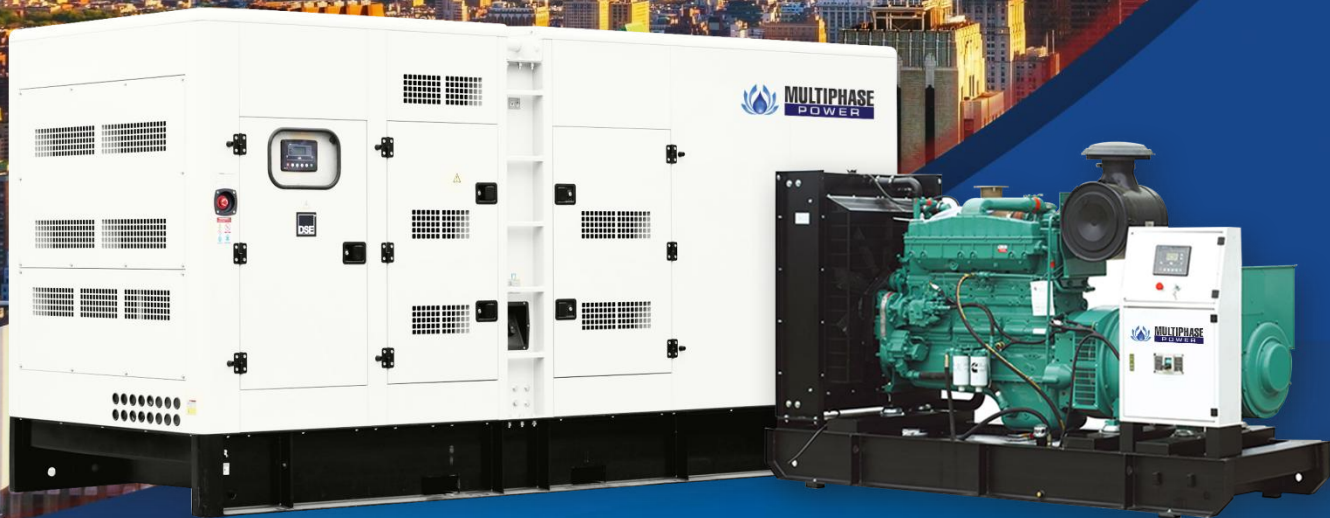
**MULTIPHASE
POWER**

Diesel Generator Set

MPY34SC

Powered By SDEC

50 Hz / 1500 RPM



MULTIPHASE CORPORATION CO., LTD.

90 CW Tower, Room No.A2102, 21st Floor, Ratchadapisek Road,
Khwaeng Huai Khwang, Khet Huai Khwang, Bangkok 10310
Tel. : +66 02 168 3193-5 Fax. : +66 02 168 3192

Email : marketing@multiphase-corp.com Website : www.multiphase-power.com
Facebook : www.facebook.com/MultiphasePower Line ID : @multiphasepower



MPY34SC



| MODEL | FREQUENCY / RPM | STANDBY POWER | PRIME POWER |
|----------------------------|-----------------|---------------|-------------|
| MPY34SC Powered by SDEC | 50 Hz/1500 RPM | 28 kW | 25 kW |
| | | 34 kVA | 31 kVA |

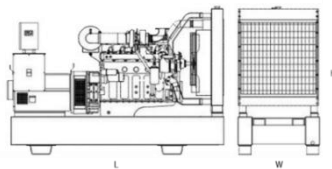
- Available for voltages 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V
- All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29.53 inHg), air temperature 25 °C (77 °F), relative humidity 30%.
- Diesel generators comply with standards : ISO8528, ISO14000,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

GENERAL CHARACTERISTICS

| | |
|--------------------|-----------------------|
| Model | MPY34SC |
| Engine | SDEC 4Z3.2-G21 |
| Alternator | Leroy Somer TAL-A42-C |
| Voltage (V) | 400/230 |
| Current (A) | 45 |
| Connection | 3 Phase, 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) | 1800 mm | 2300 mm |
| Width (W) | 850 mm | 1100 mm |
| Height (H) | 1330 mm | 1290 mm |
| Net Weight (KG) | 730 kg | 1200 kg |



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STANDARD CONFIGURATION

| | |
|--------------------------|--|
| Engine | SDEC, including air filters, fuel filters, oil filter, starting motor and charging alternator etc. |
| Alternator | LERROY SOMER brushless AC alternator |
| Radiator | Silent Type 50 °C (Open Type 40 °C), fan protective shroud |
| Base Frame | ≤ 550 KW : base mounted fuel tank, anti-vibration pads, battery holder > 550 KW : channel steel base frame, anti-vibration pads, battery holder |
| Circuit Breaker | ≤ 63A: Micro Circuit Breaker (MCB) > 63A ≤ 1250A: Molded case circuit breaker (MCCB), > 1250A: Air Circuit Breaker (ACB) |
| 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 | SDEC 4Z3.2-G21 |
| Engine Power | 35 kW. |
| Aspiration | Turbocharged |
| Displacement (L) | 3.2 |
| Type | In-Line |
| Bore x Stroke (mm) | 98 x 105 |
| No. of Cylinders | 4 |
| Compression Ratio | 18 : 1 |
| Governor Type | Electronic Governing |
| Rated Speed (RPM) | 1500 |
| Prime Power Fuel Consumption (L/h) | 10.4 |
| Standby Power Fuel Consumption (L/h) | 11.4 |
| Fuel | Sumer: GB 252-2000 top ASTM D975 No.2-D or BS2869 1998 Class A1, A2 |
| Injection System | Multi Hole Type |
| Lube Oil Capacity (L) | 7 |
| Lube | API CF-4 15W40 |
| Lub. Method | n/a |
| Coolant Capacity (L) | 5.75 |
| Max. Top Tank Temp. | 104 |
| Std. Thermostat (Modulating) Range (°C) | 72-82 |
| Fan Drive Method | Shaft Drive |
| Cooling Fan Air Flow (m ³ /min) | n/a |
| Combustion Air Flow (m ³ /min) | 3.4/4.1 |
| Maximum Air Intake Restriction (kPa) | 3 |
| Exhaust Gas Flow (m ³ /min) | 9.2/11.1 |
| Max. Back Pressure (kPa) | 10 |
| Exhaust Gas Temp (°C) | 550 |
| Exhaust Pipe Size (mm) | n/a |
| Start Mode | DC12V Electric Start |
| Battery | 1 x 120 Ah |

ALTERNATOR DATA

| | | | |
|----------------------|-----------------------|--------------------|--------------|
| Alternator Model | Leroy Somer TAL-A42-C | Rate Power | 24/30 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 | 85.5% |
| Tel. Influence | TIF < 50 | Voltage Regulation | ±1% |
| Harmonic Coefficient | THF < 2% | AVR | R120 |
| Voltage Adjust Scope | ≥±5% | Excitation System | SHUNT |

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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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