



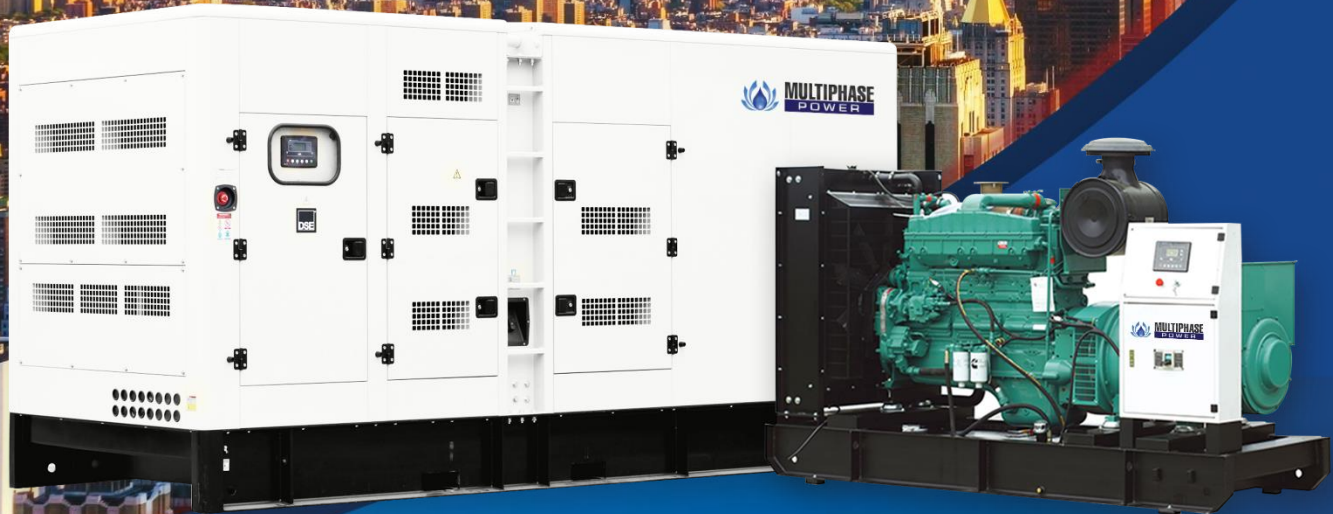
**MULTIPHASE**  
**POWER**

Diesel Generator Set

# MPY350C

Powered By Cummins

50 Hz / 1500 RPM



**MULTIPHASE CORPORATION CO., LTD.**

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# MPY350C



| MODEL                         | FREQUENCY / RPM | STANDBY POWER | PRIME POWER |
|-------------------------------|-----------------|---------------|-------------|
| MPY350C<br>Powered by Cummins | 50 Hz/1500 RPM  | 280 kW        | 250 kW      |
|                               |                 | 350 kVA       | 313 kVA     |

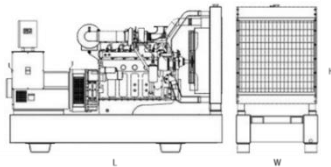
- Available for voltages 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V
- All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29.53 inHg), air temperature 25 °C (77 °F), relative humidity 30%.
- Diesel generators comply with standards : ISO8528, ISO14000,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

## GENERAL CHARACTERISTICS

|                    |                       |
|--------------------|-----------------------|
| Model              | MPY350C               |
| Engine             | Cummins NTA855-G1B    |
| Alternator         | Leroy Somer TAL-A46-G |
| Voltage (V)        | 400/230               |
| Current (A)        | 451                   |
| 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)      | 3000 mm   | 4200 mm     |
| Width (W)       | 1100 mm   | 1500 mm     |
| Height (H)      | 1920 mm   | 2100 mm     |
| Net Weight (KG) | 3100 kg   | 4250 kg     |



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## STANDARD CONFIGURATION

|                          |  |
|--------------------------|--|
| Engine                   | Cummins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.  |
| Alternator               | Leroy 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<br>> 550 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"> <li>• Heavy-Duty Air Filter</li> <li>• Coolant Heater</li> <li>• Lube Oil Heater</li> <li>• Fuel and Water Separator</li> </ul>   |
| Alternator and Accessories | <ul style="list-style-type: none"> <li>• Stamford or Leroy Somer or Others</li> </ul>  |
| Cooling System             | <ul style="list-style-type: none"> <li>• High Voltage ___ kV</li> <li>• 50 °C Radiator</li> <li>• Heat Exchanger + Water Cooling Tower + External Water Circulation Pumping System</li> <li>• Remote Horizontal Water Tank System</li> </ul> |
| Control System             | <ul style="list-style-type: none"> <li>• AMF</li> <li>• Parallel</li> <li>• Practical Type in Low Temperature Environment</li> <li>• Control Screen Heater</li> <li>• Other</li> </ul>   |
| Circuit Breaker            | <ul style="list-style-type: none"> <li>• ¾ Poles</li> <li>• Fixed/Handcart Type</li> <li>• Electric Mechanism</li> </ul>   |
| Automatic Transfer Switch  | <ul style="list-style-type: none"> <li>• ATS Cabinet</li> </ul>  |
| Start Battery              | <ul style="list-style-type: none"> <li>• Nickel-Cadmium Battery</li> <li>• Maintenance-Free Battery</li> <li>• Power Charger and Selector</li> <li>• Charging Current Meter</li> </ul>   |
| External Fuel Tank         | <ul style="list-style-type: none"> <li>• 500 L, 1000 L, 1500 L, 2000 L, 2500L, 3000L, 4000L, 5000L</li> </ul>  |

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## ENGINE DATA

|  |  |
|--|--|
| Engine Model                               | Cummins NTA855-G1B                           |
| Engine Power                               | 321 kW.                                      |
| Aspiration                                 | Turbocharged & Aftercooled                   |
| Displacement (L)                           | 14   |
| Type                                       | In-Line                                      |
| Bore x Stroke (mm)                         | 140 x 152                                    |
| No. of Cylinders                           | 6  |
| Compression Ratio                          | 14.0 : 1                                     |
| Governor Type                              | Electronic Governor                          |
| Rated Speed (RPM)                          | 1500   |
| Prime Power Fuel Consumption (L/h)         | 71.4   |
| Standby Power Fuel Consumption (L/h)       | 80.7   |
| Fuel                                       | ASTM D975 No.2-D or BS2869 1998 Class A1, A2 |
| Injection System                           | PT   |
| Lube Oil Capacity (L)                      | 38.6   |
| Lube                                       | API CF-4 15W40                               |
| Max. Temperature (°C)                      | 121  |
| Coolant Capacity (L)                       | 66   |
| Max. Top Tank Temp. (°C)                   | 104  |
| Std. Thermostat (Modulating) Range (°C)    | 82-94  |
| Fan Drive Method                           | Shaft Drive                                  |
| Cooling Fan Air Flow (m <sup>3</sup> /min) | 420  |
| Combustion Air Flow (m <sup>3</sup> /min)  | 22.5/25.08                                   |
| Maximum Air Intake Restriction (kPa)       | 3.7  |
| Exhaust Gas Flow (m <sup>3</sup> /min)     | 58.8/65.4                                    |
| Max. Back Pressure (kPa)                   | 10   |
| Exhaust Gas Temp (°C)                      | ≤ 499  |
| Exhaust Pipe Size (mm)                     | φ 150  |
| Start Mode                                 | DC24V Electric Start                         |
| Battery                                    | 2 x 150 Ah                                   |

## ALTERNATOR DATA

|                      |                       |                    |                |
|----------------------|-----------------------|--------------------|----------------|
| Alternator Model     | Leroy Somer TAL-A46-G | Rate Power         | 288/360 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         | 93%            |
| Tel. Influence       | TIF < 50              | Voltage Regulation | ±1.0%          |
| Harmonic Coefficient | THF < 2%              | AVR                | AS440          |
| Voltage Adjust Scope | ≥±5%                  | Excitation System  | Self Excited   |

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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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