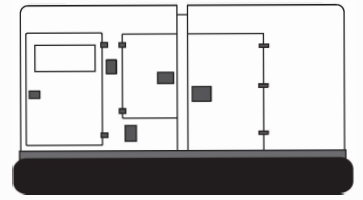


# Gogopower

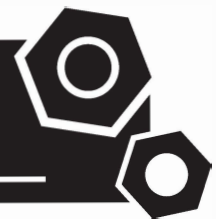


**Generator set**

**Sound-proof type**

**DP350C5S-AU**

**SPECIFICATIONS**



[www.gogopower.com.au](http://www.gogopower.com.au)

**DP series**  
**DP350C5S-AU**  
 50 Hz @ 1500rpm,3-phase/4-wiring

**1 Standards & Conditions**

**Design Standards**

The designs and the productions are in conformity with:

- Conformance European (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009
- AS 3000-1997
- AS 3010.1-1988

**Environmental Operating Conditions**

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25°C to 45°C. The coolant heater is needed when the temperature is below 5°C
- Humidity: Less than 90%.
- Altitude: Below one thousand (1000) meters above sea level.

**Factory Inspection**

- Inspection items.
- Protection devices working test.
- Starting ability in normal temperature.
- 50% rated power load moment capability.
- Voltage deviation and speed variation: 0%, 25%, 50%, 75%, 100%, 110% Load.

**Painting Process**

- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

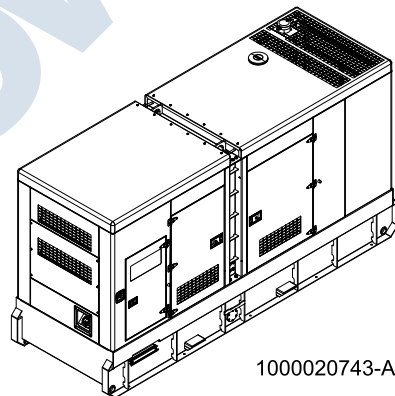
**2 General Features**

- Cummins engine NTA855-G2A
- Close coupled to a Stamford alternator HCI444E
- Microprocessor control module PLC-7320
- NADER main circuit breaker: 3-Phase 630A
- Rotate speed governor: Electrical governor FP801
- Excitation System: Self Excited,SHUNT
- A.V.R.Model: AS440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector

- 2x12V sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Non-returning valve for fuel inlet hose of the engine
- Steel base frame with forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 23 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

**3 Equipment Specification**

**General technical data**

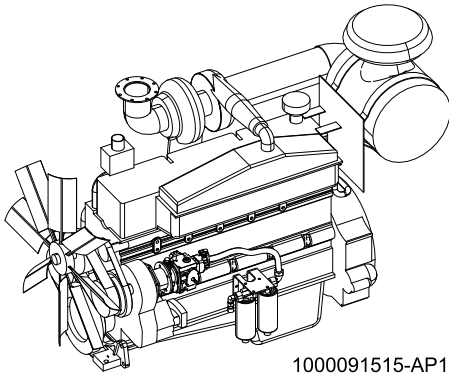


1000020743-AP1-C6

Model..... DP350C5S-AU  
 Structure type ..... R  
 Tank capacity..... 1650L  
 Dry weigh..... 4807kg  
 Noise level @7m ..... 69.2dBA  
 Dimensions L×W×H..... 4245x1465x2425mm  
 Standby Power ..... 370kVA/296kW  
 Prime Power..... 350kVA/280kW

|                                |      |      |      |      |      |
|--------------------------------|------|------|------|------|------|
| Voltage                        | 380V | 400V | 415V | 440V |      |
| Ampere                         | 532A | 505A | 487A | 459A |      |
| <b>Genset Fuel Consumption</b> |      |      |      |      |      |
| Frequency/Load                 | 25%  | 50%  | 75%  | 100% | 110% |
| 50Hz (L/h)                     | 17.5 | 34.9 | 52.4 | 69.8 | 76.8 |

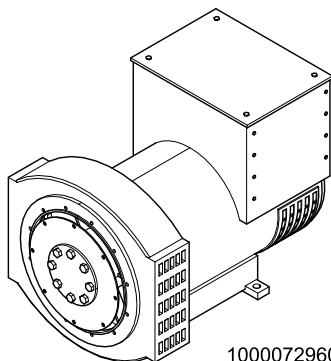
## Diesel engine



1000091515-AP1-A4

|                                  |                      |
|----------------------------------|----------------------|
| Engine Manufacturer/Brand .....  | Cummins              |
| Engine Model .....               | NTA855-G2A           |
| Dimensions L×W×H .....           | N/A                  |
| Dry Weigh (approx.) .....        | 1410Kg               |
| Number of Cylinders .....        | 6                    |
| Bore .....                       | 140mm                |
| Stroke .....                     | 152mm                |
| Displacement .....               | 14L                  |
| Compression Ratio .....          | 14                   |
| Type of injection .....          | Direct injection     |
| Intake System .....              | Turbocharged         |
| Intake Resistance .....          | ≤6.22kPa             |
| Cooling System .....             | Water cooled         |
| Fan .....                        | Pusher               |
| Battery Voltage .....            | 24V                  |
| Type of Fuel .....               | No.2-D per ASTM D975 |
| Type of Oil .....                | API CD/SE or CCMCD4  |
| Oil Capacity .....               | 36L                  |
| Type of Coolant .....            | Glycol mixture       |
| Coolant Capacity .....           | 60.6L                |
| Back Pressure .....              | ≤10kPa               |
| Standby Power .....              | 343kW                |
| Continuous Power .....           | 310kW                |
| Fuel Consumption(100%load) ..... | 192.6g/kW.h          |

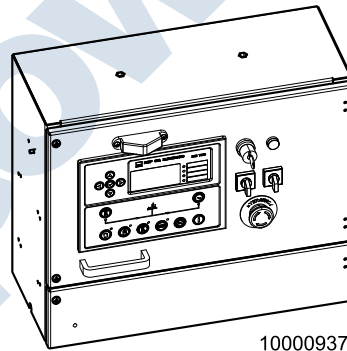
## Alternator



1000072960-AP1-A1

|   |                              |
|---|------------------------------|
| Alternator Manufacturer/Brand .....                       | Stamford                     |
| Alternator Model .....                                    | HCI444E                      |
| Exciter .....   | Brushless                    |
| Cooling Fan .....   | Cast alloy aluminum          |
| Windings .....  | 100% copper                  |
| Insulation Class .....                                    | H                            |
| Winding Pitch .....                                       | 2/3                          |
| Terminals .....   | 12                           |
| Drip Proof .....  | IP23                         |
| Altitude .....  | ≤1000m                       |
| Overspeed .....   | 2250rpm                      |
| Air Flow .....  | 0.8m³/s(50HZ),0.99m³/s(60HZ) |
| Voltage Regulation .....                                  | ±1.0%                        |
| Total harmonic TGH / THCat no load < 1.5 % - on load < 5% |                              |
| Telephone Interference .....                              | THF<2%;TIF<50                |

## PLC-7320 Control System



1000093793-AP1-A2

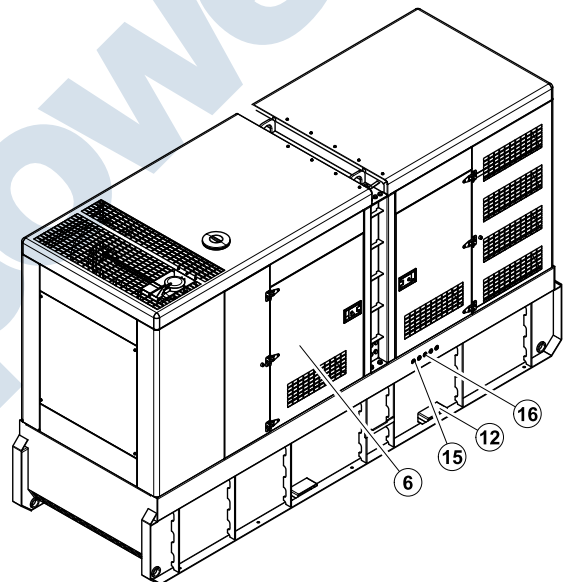
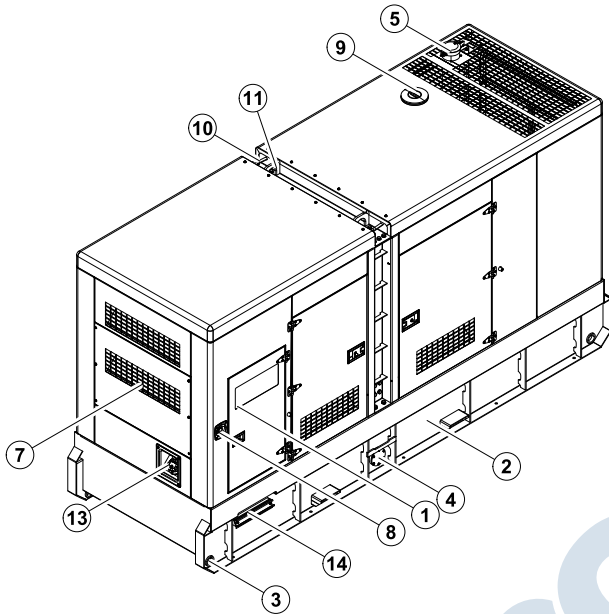
PLC-7320 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable
- Real time clock for time and date display, overall runtime display, 250 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol

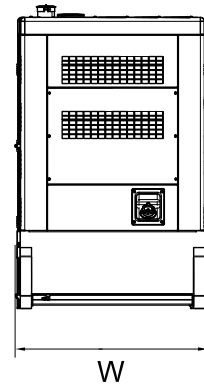
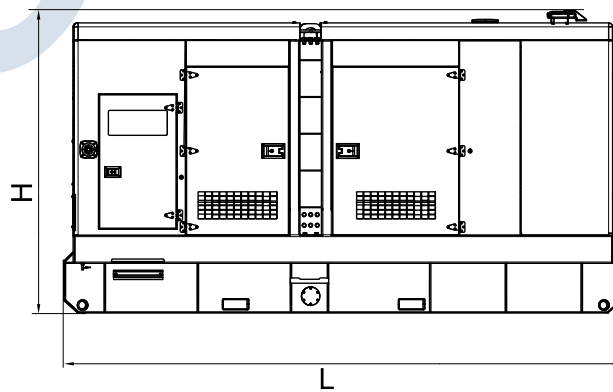
## 4 Overall Dimensions

1000020743-DR1-C6

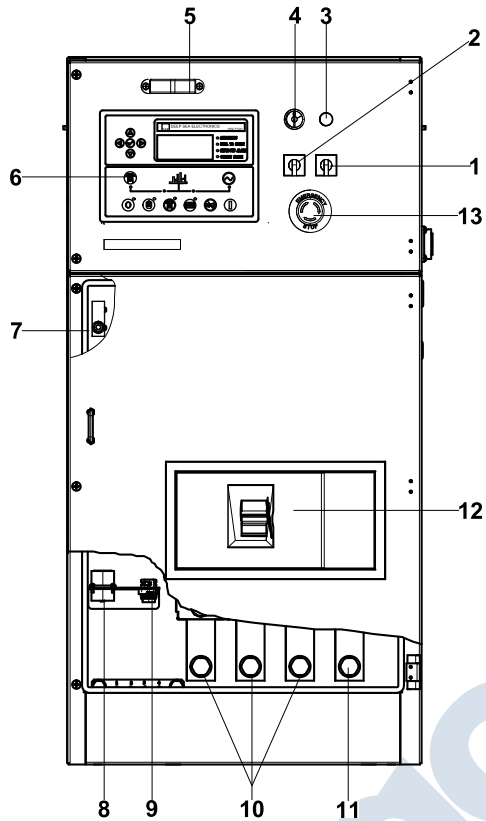
|                      |                  |
|----------------------|------------------|
| Dry weight           | 4807kg           |
| Fuel tank capacity   | 1650L            |
| Dimensions L x W x H | 4245x1465x2425mm |



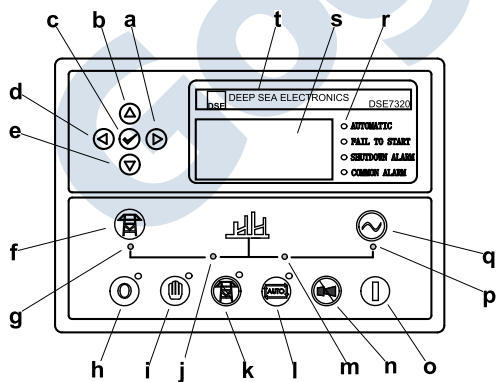
- ⑧ Emergency stop switch
- ⑦ Air inlet
- ⑥ Access door
- ⑤ Exhaust gas outlet
- ④ Fuel drain
- ③ Tie down
- ② Base frame
- ① Control cabinet
- ⑬ Fuel inlet
- ⑫ Fork lift channel
- ⑪ Lifting lug
- ⑩ Roping lug
- ⑨ Coolant inlet
- ⑯ External fuel inlet/return hose fitting
- ⑮ Coolant/Oil drain hose fitting
- ⑭ Cable trench



## 5 Control System



**Control & Field wiring cabinet**



**Control Panel**

| Ref. | Description                   |
|------|-------------------------------|
| 1    | Control cabinet lamp switch   |
| 2    | Mains input changeover switch |
| 3    | Charge indicator              |
| 4    | Key switch                    |
| 5    | Control cabinet lamp          |
| 6    | Control module                |
| 7    | Limit switch                  |
| 8    | ATS connector                 |
| 9    | Remote run connector          |
| 10   | Live wire terminals           |
| 11   | Neutral wire terminal         |
| 12   | Main circuit breaker          |
| 13   | Emergency stop switch         |

|   |  |
|---|--|
| a | Button (next page)   |
| b | Button (increase value / previous item)                                  |
| c | Button (accept)  |
| d | Button (previous page)   |
| e | Button (decrease value / next item)                                      |
| f | Button (transfer the load to the mains supply, when in Manual mode only) |
| g | Mains supply available LED   |
| h | Stop / Reset button  |
| i | Manual button (Manual control mode)                                      |
| j | Mains supply on load LED   |
| k | Test button (Test mode)  |
| l | Auto button (Auto mode)  |
| m | Genset on load LED   |
| n | Mute/Lamp test button  |
| o | Start button (Manual)  |
| p | Genset available LED   |
| q | Button (transfer the load to the genset, when in Manual mode only)       |
| r | Alarm LED (4 alarm items)  |
| s | LCD display  |
| t | Control module name  |

|                 |
|-----------------|
| 1000020743-C6-E |
|-----------------|

|         |
|---------|
| 12.2011 |
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