

DIESEL GENERATOR SETS



RC680E6 / RC680B6

TEMPERATURE	PRIME	STANDBY
40°C	544KW	600KW
40°C	680KVA	750KVA

SAFETY PROTECTION:

- □ Water Temp.
- Oil Pressure
- ☐ Emergency Stop Button
- □ Battery Disconnect
- □ Lockable Voltage Selection
- ☐ Generator Output Protection.

OVERALL SPECIFICATION

•	Frequency:60 Hz
•	Voltage:440V / AC
	Engine Speed:1800RPM
	Fuel Tank Capacity:980L
	Oil Capacity: 50L
	Gross Engine Power Output:664KW
	Sound Level (Full Load):72dB(A) / 7m
	Weight: (Open)4300kg
	(Canopy)7500kg
•	Dimension: (Open)3750 x 1960 x 2360 (mm)
	(Canopy)5100 x 1850 x 2550 (mm)

CUMMINS ENGINE

FEATURES

- Genuine CUMMINS diesel engine
- Low in fuel consumption
- Low exhaust emissions



High-tech injection and charging system with low internal losses contributes to excellent combustion and low fuel consumption.

DURABILITY AND LOW NOISE

Critical parts are designed with high tolerance ratio up to at least 30%, resulting in long lasting and reliable performance under almost all operation conditions. Reduced total number of parts has lead to lower maintenance and operation costs to almost 50%, comparing to some engines with traditional designs.

STARTING SYSTEM

24 VDC negative earthed starter, battery charging alternator.

FILTERING SYSTEM

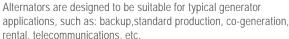
Air cleaner with dry element and restriction indicator; spin-on full flow and by-pass lube oil filter and corrosion resistor coolant filter.

ENGINE

•	Engine Model:	KTAA19-G6A
•	Number of Cylinders:	6
•	Bore x Stroke:	
•	Displacement:	18.9(L)
•	Aspiration:	Turbo
•	Compression Ratio:	13.0:1
•	Cooling System:	
	Lubrication Capacity:	50(L)
	Coolant Capacity:	106(L)
	Consumption:	1401 /h

STAMFORD ALTERNATOR

APPLICATIONS





STANDARD OF COMPLIANCE

Alternators conform to the main international standards and regulations: IEC60034, NEMA MG1.22, ISO 8528, CSA, CSA/UL, etc.Alternators are designed, manufactured and marketed in an ISO 9001 environment.

TOP OF THE RANGE ELECTRICAL PERFORMANCE

- Class H insulation
- Standard 12-wire re-connectable winding, 2/3 pitch, type number 6
- High efficiency and motor starting capacity.
- Total harmonic content <2.5%

ALTERNATOR

	Altenator Model:	HCI544E
	AVR:	AS440
	Control System:	Brushless, Self Exciting
	Windings:	100% Copper
	Winding Pitch:	Two Thirds
	Winding Leads:	12
	Insulation Class:	Class H
	Protection:	IP23
	Altitute:	≤1000 (m)
	Bearing:	1
•	Weight:	1605 kg

CONDITIONS AND DEFINITIONS

Prime Power Rating:

Prime power rating is applicable for unlimited number of operation hour per year in variable load condition. Variable load should not exceed 70% of Prime Power in average of total operation. A 10% overload is allowed for 1 hour in every 12 hour of consecutive operation.

Standby Power Rating:

Continuous running at variable load for emergency power. No overload is allowed.

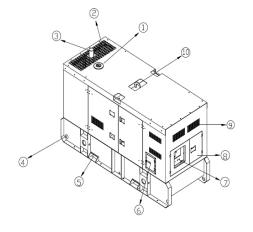
Sound Level:

Sound level is measured at 7 m.



DESIGN

The canopies are made of high quality steel and powder coated. The paint is highly endurable against erosion and scratch, and strstrongly ongly rustproof.



Standard Features

- 1. Coolant Inlet
- 2. Silencer Mesh
- 3. Exhaust Gas Outlet
- 4. Holes for Transfer Car
- 5. Fork Lift Channel
- 6. Fuel Filler
- 7. Control Panel
- 8. MCB Door
- 9. Air Inlet
- 10. Lifting Lug



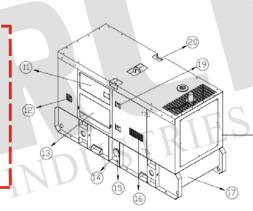
Fuel Filler



Wiring Diagram



- 11. Voltage Change Switch
- 12. Emergency Stop
- 13. Output Panel Cover
- 14. Fuel Drain
- 15. Containment Drain
- 16. Air Inlet
- 17. Base Frame
- 18. Canopy
- 19. Door Lock
- 20. Roping Lug





Adjustable Hinge



Heater Jacket

Power Coated



Radiator



Output Terminals



Cummins Engine



Control Panel & MCB







CONFIGURATION

RLP offer range of Standard and Optional features to our generator to meet your power needs as following:

Notes:	means standard	featu	re •	stands optional features	
	4 stroke Water-cooled Diesel Engine			Base Fuel Tank	
	Industrial Silencer			Fuel Tank Breather	
ENGINE	Oil Sump Pump	0	FUEL SYSTEM	External Fuel Fill Access	
	Coolant Heater 220/240 V	0		2/3 Ways Fuel Valbe (Internal / External Supply)	
	Air Filter			Low Level Fuel Switch	
	Permanent Magnet Generator (PMG)			Fuel Level Sender	0
	MX341 AVR			Base Fuel Tank	
ALERNATOR	Winding Temperature Sensor	0		Fuel Tank Breather	
	IP23 Single Bearing, Class H insulation		FUEL SYSTEM	External Fuel Fill Access	
	Anti-condensation heater 220/240V	0		2/3 Ways Fuel Valbe (Internal / External Supply)	
	Radiator for 40 C Ambient Temp.			Low Level Fuel Switch	
00011110	Low Coolant Level Protection		n11SI	Fuel Level Sender	0
COOLING SYSTEM	Engine Driven Cooling Fan		Do	Base Fuel Tank	
	Charge Air Intercooler			Fuel Tank Breather	
	Lockable Battery Isolator		FUEL	External Fuel Fill Access	
	Battery Cables		SYSTEM	2/3 Ways Fuel Valbe (Internal / External Supply)	
STARTING	2x12V Starting Battery			Low Level Fuel Switch	
SYSTEM	Static Battery Charger (220/240V)	0		Fuel Level Sender	0
	Battery Charging Alternator			Fuel Level Sender	0
	Jump Start Receptacle	0	DOCUMENTS	Parts Manual	
CONTROL SYSTEM	Deepsea 7310 Controller			Warranty Manual	
	Compact Paralleling Controller	0	SYSTEM	CE	
	Communication Card	0		Other	0



CONTROL SYSTEM CE SON (S) A Reliable Power Solution To Meet You'r Need Around The



Controled by DEEPSEA 7310





The DSE7310 is an Auto Start Control Module. Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS text alerts (with external modem).

The module includs USB, RS232 port as well as dedicated DSENet® terminals for expansion device connectivity.

The module is simple to operate and feature a user-friendly menu layout for improved clarity. Enhanced features include a real time clock for enhanced event and performance monitoring, ethernet communications for low cost monitoring, mutual standby (DSE7310 only) to reduce engine wear and tear and preventative maintenance features to detect engine part faults prior to a major problem occurring.

FEATURES

- Backed up real time clock
- 132 x 64 pixel LCD display
- Configurable display languages
- Five-key menu navigation
- Fully configurable via PC software
- LED and LCD alarm indication
- Engine exercise mode
- Configurable start & fuel outputs
- kWh monitoring
- Automatic load transfer
- Eight configurable digital inputs
- Six configurable outputs
- Configurable timers and alarms
- Modbus RTU
- Magnetic pick-up
- Selected front panel programming
- Multiple date and time exercise scheduler
- SMS messaging (additional external modem required)
- Power save mode
- User selectable RS232 communications
- DSENet® compatible
- Ethernet communications via DSF860
- Multiple date and time maintenance scheduler
- Configurable display pages
- Programmable load shedding/acceptance
- Preventative maintenance
- kW overload protection
- Unbalanced load protection
- Flexible sender input
- Configurable SCADA output page
- True dual mutual standby with load balancing timer (DSE7310 only)
- Fan control for additional cooling
- 'Protections Disabled' facility
- Fuel usage monitoring and low fuel alarm
- Support for up to three remote display units

- Automatic sleep mode
- Easy access, configurable diagnostics page shows summary of output states
- Improved programmable event log (250) showing date and time
- Manual fuel pump control
- 3 alternative configurations
- Multiple date and time scheduler
- 3 Programmable Maintenance alarms with comms alert
- Customisable status screens
- Low fuel level alarm delay
- Charge alternator fail warning and shutdown alarms with user programmable delay
- Independent Earth fault trip
- Sleep mode
- Load switching (Load shedding and dummy load outputs)
- Manual speed trim (on CAN engines that support this feature)
- Additional display screens to help with modem diagnostics Security levels - PC software has
- password system to control access to PC software features
- Operator configurable virtual LEDs visible in SCADA

NEW FEATURES

- Additional programmable logic
- Improved modem diagnostics
- Remote control sources (10) can be accessed via SCADA
- Additional electrical trip options
- Additional start delay functions
- Oil pressure values from additional
- Front panel editing of scheduler
- Displays kW as % of rated kW settina

OPERATION

The module is operated via the START, STOP, AUTO and MANUAL soft touch membrane buttons on the front panel. And the module includes load switch buttons. The main menu system is accessed using the five navigation buttons to the left of the LCD display.

CONFIGURATION

The module can be configured using the front panel buttons or by using the DSE Configuration Suite PC software and a USB lead.

COMMUNICATIONS

The DSE7310 have a number of different communication capabilities.

INPUTS & OUTPUTS

Analogue inputs are provided for oil pressure, coolant temperature and fuel level. These connect to conventional engine mounted resistive sensor units to provide accurate monitoring and protection facilities. They can also be configured to interface with digital switch type inputs for low oil pressure and high coolant temperature shutdowns. Eight user configurable digitalinputs are also included plus one flexible sender.

Outputs are provided for fuel solenoid, start solenoid and six additional configurable outputs. On these configurable outputs a range of different functions, conditions or alarms can be selected.

INSTRUMENTATION

The module provides advanced metering facilities, displaying the information on the LCD display. The information can be accessed using the five-key menu navigation to the left of the display.