

### MODEL: IGNITE POWER IPC-250



(Picture is for illustration purpose only)

**250 kVA / 200 kW  
POWERED BY PERKINS**

### DIESEL GENERATING SET 400/230V, 380/220V - 50 Hz, 1500RPM

MODEL			IGNITE POWER IPC-250
Power Pf. 0.8	Standby	kVA	275
		kW	220
	Prime	kVA	250
		kW	200

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance possibility
- Every generating set is subject to a comprehensive test program which includes full load testing, checking and provision of all control and safety shut down functions testing
- Fully engineered with a wide range of options and accessories: Canopy, sound proof canopy and on - road trailer



### ENGINE

Cummins		
Model	6LTAA8.9-G2	
Engine Power Output at rated rpm	kWm	220
	HP	295
Aspiration and Cooling	Turbocharged	
Total Displacement	Litre	8.9
No. of Cylinders and Build	6 - Vertical Inline	
Engine Speed	rpm	1500
Bore and Stroke	mmxmm	114 x 145
Compression Ratio	16.1:1	
Governor	Electronic	
Fuel Consumption at full load	L/hr	53.0
Fuel Tank Capacity	Litre	8 Hours
Oil Capacity	Litre	27.0
Coolant Capacity	Litre	11.1
Radiator Cooling Air	m <sup>3</sup> /min	370
Air Intake – Engine	litre/sec	248
Exhaust Gas Flow	litre/sec	584

- Heavy duty Cummins diesel engine
- Four stroke, water, cooled, turbo charged
- Direct injection fuel system
- Mechanical Governor system
- 12/24 V D.C. starter and charge alternator
- Replaceable fuel filter, oil filter and dry element air filter

- Cooling radiator and fan
- Starter battery including Rack and Cables
- Flexible fuel connection hoses and manual oil sump drain valve
- Industrial capacity exhaust silencer and steel bellows
- Jacket water heater (at automatic models) Optional
- Operation manuals and circuit diagram documents

### ALTERNATOR



Design	Brushless single bearing, revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible disc
Insulation System	Class H
Standard Temperature Rise	125 - 163°C Continuous
Exciter Type	Self Excited
Phase Rotation	Clockwise
Alternator Cooling	Direct drive centrifugal blower fan
AC Waveform Total Harmonic Distortion	No load < 3.5%. Non distorting balanced linear load < 5%
Telephone Influence Factor (TIF)	<50
Telephone Harmonic Factor (THF)	<2%

- Brushless, single bearing system, flexible disc, 4 poles
- Insulation class H
- Standard degree of protection IP23
- Self-exciting and self-regulating

- Impregnation with tropicalised epoxy varnish
- Solid state Automatic Voltage Regulator
- Stator winding with 2/3 pitch for improved harmonics

### CONTROL SYSTEM

Control supervision and protection panel is mounted on the genset base frame. The control panel varies depending on requirement, in general Ignite Power generators are equipped with **Deep Sea UK DSE4520..** The main features for Deep Sea are as follows:

#### KEY BENEFITS

- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored simultaneously which are clearly displayed on a large back-lit icon display
- The module can be configured to suit a wide range of applications
- Compatible with a wide range of CAN engines, including tier 4 engine support
- Uses DSE Configuration Suite PC Software for simplified configuration
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress

#### KEY FEATURES

- Large back-lit icon display
- Heated display option available
- Fully configurable via the fascia or PC using USB communication
- Efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing (DSE6620 only)
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Generator overload protection
- Generator/load current monitoring and protection
- Breaker control via fascia buttons
- Fuel and start outputs (configurable when using CAN)
- 4 configurable DC outputs
- 4 configurable analogue/digital inputs
- 6 configurable digital inputs
- Configurable staged loading outputs

- CAN, MPU and alternator speed sensing in one variant
- 3 engine maintenance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel pump control
- Real time clock
- options available
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown protection upon fault condition
- LCD and LED alarm indication
- Configurable event log (50)



Also Gensets can be equipped with different control panels depending on usage such as:  
 DSE 6610: Basic Autostart operation with stand alone application  
 DSE 7310: advanced Autostart operation with high protections  
 DSE 7320: advanced auto mains failure operation with high protection  
 DSE 8610: for synchronization application/solution

### OPTIONAL EQUIPMENTS

#### Diesel Engine

- Oil heater

#### Alternator

- 3/4 Pole Output Circuit Breaker
- Anti - condensation Heater

#### Panel

- Charge ammeter
- Transfer Switch 3 Pole
- Transfer Switch 4 Pole
- Earth Fault, single set

#### Accessories

- Bulk fuel tank
- Automatic filling system
- Fuel - water separator filter
- Low fuel level alarm
- Residential silencer
- Enclosure or sound proof canopy
- Trailer
- Manual oil drain pump
- Tool kit for maintenance