

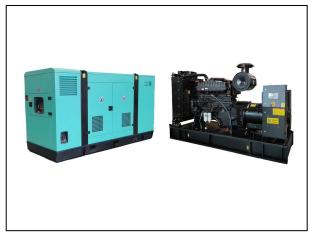
HCM200 TECHNICAL DATA SHEET

HCM200
160kW/200kVA
140kW/180kVA

Standard configuration

General description:

- Engine (Cummins 6CTA8.3-G1)
- Ambient temperature 50°C radiator, belt-driven cooling fan, with fan safety guard
- 24VDC charger
- Alternator: single bearing,IP23, H
- Damper
- Dry type Air filter, fuel filter&oil filter
- Standard control panel
- 2×12VDC start batteries and connecting wires
- Exhaust elbow pipe, flexible pipe, conical pipe, muffler
- Documents



Genset Power

Genserrow	er					
Voltage	Frequency	Phase	Power	Prime	Standby	Prime
(V)	(Hz)	Fnase	factor	Ampere (A)	(kW/kVA)	(kW/kVA)
400/230	50	3	0.8	253	160kW/200kVA	140kW/180kVA
380/220	50	3	0.8	267	160kW/200kVA	140kW/180kVA

RATING DEFINITION AS PER ISO8528

Prime Power (PRP): Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated kWe with 10% overload capability for emergency use for a maximum of 1 hour in 12.

Standby Power Rating (ESP): Output available with varying load during a normal power supply failure. Average power output is 80% of the standby power rating. Typical annual operating time less than 500hours. No overload is available.

The relationship between engine power and altitude: above 1500 meters above sea level, the power decreases by 4% for every 300 meters above sea level

Warranty

The products provided by HONNY Company are all brand-new products, and each unit has undergone strict factory inspection.

All products of HONNY Company provide warranty service. The warranty period is 12 months after delivery or 1000 hours of operation in total, whichever expires first.

All services and accessories of HONNYPOWER products can be obtained from HONNYPOWER wholly-owned branches or distributors within the validity period of HONNY authorization.

Engine data	
Engine	e data
Manufacturer/Model	Cummins /6CTA8.3-G1

DIESEL GENERATOR SET www.honnypower.com

HONNY
POWER

Air intake system	Turbo, Water/Air Cooling
Fuel system	PB type fuel pump
Cylinder/Alignment	6 in line
Displacement Litre	8.3 L
Bore x stroke mm	114×135 (mm)
Compression ratio	17.3:1
Rated Engine speed RPM	1500
Max. Standby power at rated speed	180kW/241HP
Governor type	Mechanical
Exhc	iust system
Exhaust gas flow	34.7m³/min
Exhaust temperature	570°C
Maximum allowable exhaust back pressure kPa	10kPa
Air int	take system
Max intake restriction	6kPa
Combustion air flow	12.4 m³/min
Air flow required for radiator	238 m³/min
Fuel c	onsumption
100% common power (L/h)	41.2
75% common power (L/h)	30.5
50% common power (L/h)	21.2
25% common power (L/h)	N/A
Fuel cor	nsumption rate
100% common power g/kW.h	215
75% common power g/kW.h	211
50% common power g/kW.h	216
25% common power g/kW.h	N/A
Lubric	ation system
Total oil capacity	27.6L
Oil consumption	≪4g/kwh
Oil sump capacity	15.1~18.9L
Coo	ling system
Engine Coolant Capacity L	34
Maximum water temperature℃	104

Alternator data Alternator data Manufacturer/Model Leroysomer/TAL-A44-M/160kW 3 Phase 400 V Voltage Three-phase four-wire, Y-wound Number of Wires 1 Number of bearings Power factor 0.8 IP23 Protection

DIESEL GENERATOR SET www.honnypower.com

≤1000m
brushless self-excitation
Н/Н
<50
<2%
≤±1%
200kVA
98.5%
≥±5%
≤±1%
≤+25%
≤-20%
≤6S
≤6S
≥±5%adjustable
≤±0.25%
≤+12%
≤-10%
≤5\$
≤5\$

HONNY GENSET QUALITY STANDARD

HONNY POWER

HONNY diesel generator sets are designed, produced and tested in strict accordance with the standards. They can be used in various environments and meet the following relevant standards:

GB755、BS5000、VDEO530, NEMANG1-22、IED34-1、CSA22.2、AS1359

Document

Original document from Engine	Generator Set Maintenance Record Manual				
Original document from Alternator	Generator Set Installation and Operation Manual				
Original document from Control panel	Generator set installation and commissioning				
	acceptance list				
Generator set original test report Certificate of origin of the generator set					

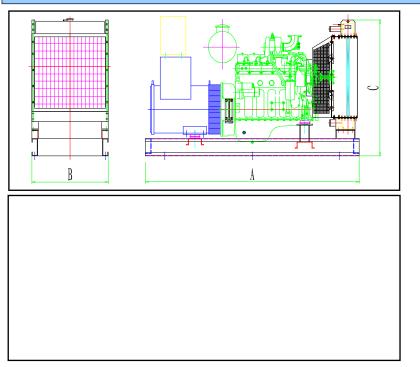
Optional accessories		
Engine	Alternator	Electric elements
Water jacket heater	Anti-condensation heater	Remote control system
Oil preheater	Permanent magnet excitation	Control Panel with triple remote
	system (PMG)	functions
Battery charger	Voltage droop (parallel use)	ATS
Air starter motor	Other temperature rise classes	Synchronized or parallel panel
Heavy Duty Air Filter for Desert	RTD temperature sensor, 2 per	Anti-condensation heater
	phase	



Heavy Duty Secondary Muffler		Voltage 3.3kV/6.3kV/10.5kV/11kV
Fuel system	Others	Cooling system
base fuel tank&Daily fuel tank	Waterproof type	External Cooling Towers
Water separator	Silent/Soundproof /container type	Remote Radiator
Automatic oil supply system	Trailer type	Heat exchanger
Buried fuel tank	Emergency Power Supply Vehicle	Marine cooling system

Some options may not be suitable for the whole series of generator sets, please consult HONNY application engineering department or the person in charge of this project of HONNY.

Measurement and Weight



Open type

Overall: L×W×H Overall: 2350×830×1700mm Weight: 1720kg

Silent type

Overall size: L×W×H Overall size: 3230×1170×1800mm Weight: 2400kg







DSE7310/20 **AUTO START & AUTO MAINS FAILURE CONTROL MODULES**



The DSE7310 is an Auto Start Control Module and the DSE7320 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.

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 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.

Both modules are compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offer an extensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet the most demanding industry requirements.

includes enhanced event and performance monitoring, remote communications and dual mutual standby (DSE7310 only) to reduce engine wear.

The extensive list of features

The modules can be easily configured using the DSE Configuration Suite PC software. Selected front panel editing is also available.

ENVIRONMENTAL TESTING STANDARDS

ELECTRO-MAGNETIC COMPATIBILITY BS EN 61000-6-2 ELECTRO-MAGNETIC COMPATIBIL BS EN 61000-6-2 EMC Generic Immunity Standard for the Industrial Environment BS EN 61000-6-4 EMC Generic Emission Standard for the Industrial Environment

ELECTRICAL SAFETY BS EN 60950 Safety of Information Technology Equipment, including Electrical Business Equipment

TEMPERATURE BS EN 60068-2-1 Ab/Ae Cold Test -30 °C BS EN 60068-2-2 Bb/Be Dry Heat +70 °C

VIBRATION BS EN 60068-2-6 Ten sweeps in each of three 5 Hz to 8 Hz @ +/-7.5 mm, 8 Hz to 500 Hz @ 2 gn

HUMIDITY BS EN 60068-2-30 BS EN 60068-2-30 Db Damp Heat Cyclic 20/55 °C @ 95% RH 48 Hours BS EN 60068-2-78 Cab Damp Heat Static 40 °C @ 93% RH 48 Hours

SHOCK BS EN 60068-2-27 Three shocks in each of three major axes 15 gn in 11 mS

DEGREES OF PROTECTION PROVIDED BY ENCLOSURES BS EN 60529 IP65 - Front of module when installed into the

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF GEN-SET APPLICATIONS

DSE2130 DSE2157 DSE2548 DSE2510/20	MODEM MODBUS	PC	۱ ۱	⊗₊	₫·	G	
DSENET® EXPANSION	RS232 AND RS485	USB PORT	CONFIGURABLE INPUTS	DC OUTPUTS	ANALOGUE SENDERS	EMERGENCY STOP	DC POWER SUPPLY 8-35V
			Ê, Ĵ	±	-	Ŧ	
							DEUTZ ISUZU PERKINS CATERPILLAR MTU VOLVO CUMMINS SCANIA
							JOANA
MAINS (UTILITY) SENSING DSE7320 ONLY	N/C VOLT FREE OUTPUT	N/O VOLT FREE OUTPUT	GENERATOR SENS	ING	CHARGE	FUEL & CRANK OUTPUTS (Flexible with CAN)	ELECTRONIC ENGINES & MAGNETIC PICK-UP
SENSING			GENERATOR SENS			OUTPUTS	ELECTRONIC ENGINES &
SENSING DSE7320 ONLY VOLTS			CURRENT	VOLTS	ALTERNATOR	OUTPUTS	ELECTRONIC ENGINES & MAGNETIC PICK-UP





DSE**7310/20** AUTO START & AUTO MAINS FAILURE CONTROL MODULES







KEY FEATURES

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- LED and LCD alarm indication
- 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)
- · Control logic facilities
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt.
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Engine exerciser
- "Protections disabled" feature

DSE7320



kW overload protection

and dummy load outputs)

Unbalanced load protection

Independent Earth Fault trip

Backed up real time clock

Fully configurable via DSE

only)

software

required)

messaging

USB connectivity

True dual mutual standby with

load balancing timer (DSE7310

Configuration Suite PC software

Configurable display languages

Remote SCADA monitoring via

Configurable Gencomm pages

Start & stop capability via SMS

DSE Configuration Suite PC

User selectable RS232 and

Advanced SMS messaging

(additional external modem

Additional display screens to

help with modem diagnostics

BS485 communications

Automatic load transfer (DSE7320)

- Reverse power protection
- Power monitoring (kW h, kV Ar, kV A h, kV Ar h)
- Load switching (load shedding
- clarity
- Real-time clock provides accurate event logging

Integral PLC editor

KEY BENEFITS

- Multiple date and time scheduler
- Set maintenance periods can be configured to maintain optimum engine performance

DSENet[®] expansion compatible

132 x 64 pixel ratio display for

- Ethernet communications (via DSE860/865 modules), provides advanced remote monitoring at low cost
- Modules can be integrated into building management systems (BMS)
- Increased input and output expansion capability via DSENet[®]
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- PLC editor allows user configurable functions to meet specific application requirements



SPECIFICATION

DC SUPPLY CONTINUOUS VOLTAGE RATING 8 V to 35 V Continuous

CRANKING DROPOUTS

Able to survive 0 V for 50 mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries. LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT 340 mA at 12 V, 160 mA at 24 V

MAXIMUM STANDBY CURRENT 160 mA at 12 V, 80 mA at 24 V

CHARGE FAIL/EXCITATION RANGE 0 V to 35 V

MAINS (UTILITY) DSE7320 ONLY VOLTAGE RANGE 15 V - 333 V AC (L-N)

FREQUENCY RANGE

OUTPUTS OUTPUT A (FUEL) 15 A DC at supply voltage

OUTPUT B (START) 15 A DC at supply voltage

OUTPUTS C & D 8 A 250 V (Volt free)

AUXILIARY OUTPUTS E,F,G,H

2 A DC at supply voltage

GENERATOR VOLTAGE RANGE 15 V - 333 V AC (L-N)

FREQUENCY RANGE 3.5 Hz to 75 Hz

MAGNETIC PICK UP VOLTAGE RANGE +/- 0.5 V to 70 V

FREQUENCY RANGE 10,000 Hz (max)

DIMENSIONS OVERALL

240 mm x 181 mm x 42 mm 9.4" x 7.1" x 1.6"

PANEL CUT-OUT 220 mm x 160 mm 8.7" x 6.3"

MAXIMUM PANEL THICKNESS 8 mm 0.3"