

Main configuration and features

- Highly efficient gas engine
- AC synchronous alternator
- Gas safety train and gas protection device against leakage
- High efficient water-air inter-cooler
- High efficient turbocharger
- Wet exhaust manifold
- Ignition system, including: ignition module, ignition lead, ignition coil, spark plug, ignition sensor
- Ignition high energy signal panel
- Speed control system, including: actuator, speed governor, throttle valve, speed sensor
- IPMOC Mixer
- Unattached switch cabinet and electric control cabinet
- Multi-functional control system with simple operation
- Monitoring battery voltage and charging automatically
- Industrial silencer with silencing ability of 12-20dB(A)
- Reducer valve (optional)
- Gas leakage detector (optional)
- Auto refilling oil system(optional)
- Communication module (optional)

Soundproof canopy and control cabinet

Structure type	Open or Soundproof
Canopy painting	High-class powder coating
Electrical control cabinet	Integrated into unit,IP54
Noise level@7m, dB(A)	75

Dimension and weight open type

Dimension(LxWxH), mm	3500x1300x2000
Weight, kg	2900

Special statement

- 1 The technical data are based on a gas mixture of 80% methane and 20% carbondioxid with a calorific value of 35.8 MJ/Nm3 and a methane no. > 70
- 2 The technical data is measured in standard conditions:
 Absolute atmospheric pressure:100kPa
 Ambient temperature:25°C
 Relative air humidity:30%
- 3 Rating adaptation at ambient conditions acc to DIN ISO 3046/1. The tolerance for the specific fuel consumption is + 5 % at rated output.
- 4 Dimension and weight above are just for standard product ,and may be subject to change. As this document is used only for presale reference, take the specification supplied by us before ordering as final.



Power and efficiency @50Hz

Electric power -kW 120 Electric efficiency 33%

Fuel Request

Fuel type	Natural gas
Fuel component	≥90% CH4
Methane no.	MN> 70
Fuel consumption @100% load, m3/h	36.4 (±5%)
H2S content	≤100ppm
NH3 content	≤5ppm
Silicon content	≤5mg/Nm3
Impurities content	≤30mg/Nm3
Water content	no free water
Supply gas pressure range, kPa	10~20



Gen-set performance data and manufacturing technology							
Gen-set model	HGCM150	Power and efficien	Power and efficiency				
Electric output power(kW)	120	Load 100% 75%					
Output Type	3 Phases 4 wires	Electric power (kVA)	120	90	60		
Voltage output	400/230 V	Electric efficiency	33%	32%	31%		
Power factor cosfi	0.8 lagging						
Frequency (Hz)	50	Manufacturing to					
Rated speed (RPM)	1500		 Manufacturing technology Special welded base frame, inner vibration isolators and design for whole lifting With high-class paint, endurable brightness 				
Voltage Stabilized regulation	≤±1.5%	· ·					
Voltage Instantaneous regulation	≤±20%						
Voltage Recovery time (s)	≤1		well resistance against abrasion and defact Installation manual, operation and maintenance				
Voltage Fluctuation ratio	≤1%		manual wiring program Standards and certificate ISO3046,ISO8528,GB2820 BS5000PT99,AS1359,IEC34 ISO9001:2015 quality system certification				
Voltage Wave aberration ratio	≤5%	Standards and ce					
Frequency Stabilized regulation	≤1%(adjustable)						
Frequency Instantaneous regulation	-10%~12%						
Frequency Recovery time (s)	≤7						
Frequency Fluctuation ratio	≤1%						

Alternator brand	Faraday	Voltage	Power
Alternator model	FD3ES	380V	128kW
Rated output power (kW)	128	400V	128kW
Power factor	0.8	415V	128kW
Rated current @ 400V and 100% load (A)	216.5		
Excitation system	Brushless		
THD	<2%		
Bearing number	1		
Winding material	100% copper		
Wiring connection	Star		
Rotor insulation class	Н		
Winding pitch	2/3		
AVR model	SX440		
Voltage fluctuation(no load to full load)	±0.5%		
Housing protection	IP23		
TIF (NEMA)	<50		
Excitation method	Shunt		
Rated ambient temperature(°ℂ)	40		



Efficient gas engine HNT6C

Model	HNT6C	
Brand	HONNY-CUMMINS	
Туре	4 stroke, water-cooled, wet cylinder liner, electronic-control ignition system, pre-mixed perfect mixed burning	
Engine output(kWm)	145	
Cylinders& Arrangement	6 in line	
BoreXStroke(mm)	114x135	
Displacement(L)	8.3	
Compression ratio	10.5:1	
Speed(RPM)	1500	
Rotation direction	Anti-clockwise Viewed on flywheel	
Ignition timing	°BTDC 20	
Aspiration	Inter-cooled and Turbocharged	
Cooling Method	Water cooled by fan radiator	
Gas mixer	IMPOC	
Gas valves	Intake 2 & exhaust 2 per cylinder	
Ignition timing	1-5-3-6-2-4	
Ignition controller	ECU	
Starting method	Electric, 24 V motor	
Idling speed(r/min)	700	
Oil recommended	Gas engine special oil, SAE 15W-40 CF4 or Above	
Oil consumption	≤0.5g/kW.h	
Oil capacity	23.8L	
Oil pressure	276Kpa ~414Kpa	
Engine coolant capacity (Only engine)	12.3L	
Max permit coolant temperature	100℃	
Electrical efficiency	33%	
Heat efficiency	52.4%	
Starting motor	DC24V	
Battery	2x12V , 100Ah	



DSE6120



The DSE6110 MKIII is an Auto Start Control

Module suitable for a wide variety of single, diesel
or gas, genset applications.

Monitoring an extensive number of engine parameters, the module will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs and remote PC.

The module includes USB connection and dedicated DSENet® terminals for system expansion.



The module is compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offers 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.

The extensive list of features includes enhanced event and performance monitoring, remote communications & PLC functionality. The modules can be easily configured using the DSE Configuration Suite PC software. Selected front panel editing is also available.



Standard configuration

Engine	Alternator	Canopy(optional) and base	Electrical cabinet		
Gas engine Ignition system Electronic governing system Water to air inter-cooler Electrical start motor Battery system	AC alternator H class insulation IP23 protection AVR voltage regulator	Steel monocoque base frame Engine bracket Vibration isolators Alternator base Soundproof canopy	Air circuit breaker Gen-set controller		
Gas supply system	Lubrication system	Standard voltage	Induction/ exhaust system		
Gas safety train Air/fuel mixer	Oil filter(on the engine) Oil pump(on the engine)	380/220V 416/240V 440/254V 480/277V	Air filter Exhaust silencer Exhaust bellows Ventilation fan		
Heat exchange system (optional)		Service and document	ts		
Exhaust heat exchanger Jacket water heat exchanger Mixture circulation pump Jacket water heater(optional) Expansion tank, Shut-off valve Three-way auto proportional valve Emergency radiator	Installation and operation manual Gas quality specified Maintenance manual Control system Software manual After service of		Installation and operation manual Maintenance manual Software manual Gas quality specification Control system manual After service guide		specification em manual e guide

Optional configuration

Engine	Alternator	Exhaust system
Heavy duty air filter Auto A/F ratio controller	Space heater AVR Treatments against humidity and corrosion	Guard shield from touch Residential silencer Three-way catalytic converter
Canopy and base	Lubrication system	Voltage
SECC base frame Lightning protection	Automatic oil filling switch Auxiliary oil tank	208V 220V 240V
Service and documents	Gas supply system	
Service tools Maintenance and service parts	Gas pressure reducer valve	Emergency relief flare Free water separator Gas purification plant

Data is subject to change without prior notice as new products are always developed.

Please contact HONNY or local agent with any doubts or for more information.