

All Days | Safty | Reliable | Stability

















FEATURE



Multi socket output

Multi socket output is a standard configuration for diesel generators, which can be adapted to various power output sources



Euro 5 emission standards

Complies with Euro 5 emission standards



Silent Canopy

The generator set has good mute effect, overall compact structure, and occupies small space



Control System

Support engine and alternator monitoring, measurement and protection. This is long-running and back-up unit to integrate the best way to control. Support Modbus standard, modem, RS232, RS485, USB and internet.





Anti surge Design Anti surge

Bounded tank

The 12 hour operating fuel tank is a standard configuration for diesel units, and a double layer fuel tank can prevent fuel leakage.



- Trailer

Mobile generators give you dependable power anywhere, from remote construction sites to public events and storm recovery.



With base frame forklift hole and generator canopy lifting hole

Forklift holes



Design Standards

- Conformite Europeenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009
- JB/T20136-2006
- YD/502-2007

- Protection devices working test
- Starting ability in normal temperature
- 50% rated power load moment capability ●
- Voltage deviation and speed variation
- Customizable process and color
- Optional manufacturer
- Installation place: Outdoors or indoors
- Ambient temperature: -25°C to 50°C
- Humidity: Less than 80%
- Altitude: Below 1000 meters

Features

- Excitation system: Self excited
- Key switch
- Emergency stop switch
- Mains input
- Remote communication connector
- Battery isolator switch
- Powder coated canopy
- Steel base frame with forkslots
- 40°C radiator
- Dry type air filter

- Base fuel tank for 12 hours running
- Auxiliary water tank
- Terminal output
- Euro III certificate
- Operation Manual / Specifications

Technical Specification		
Generator	DG20S3	
Emission standard	EU Stage V	
Tank capacity	105L	
Noise level @7m	60dBA	
Dry weigh	570kg	
Dimensions $L \times W \times H$	1450x800x1000 mm	
Prime Power	18.8KVA	
Prime Power	15KW	
Standby Power	20.6KVA	
Standby Power	16.5KW	

Voltage		
Steady state regulation	%	≤ ± 0.5
Dynamic voltage renewal	%	≤+20~-15
Stable time	Sec	2.0
Waveform distortion	%	≤ 3
Volatility	%	≤0.5
Frequency		
Steady state regulation	%	≤ ± 1
Dynamic frequency renewal	%	≤+10~-7
Stable time	Sec	≤ 3
Volatility	%	≤0.5
Environment require		
Temperature	°C	≤40
Humidity	%	≤60
Altitude	m	≤1000
Standard		
ISO3046、ISO8528		

Dimension | Weight | Sound



Length	mm	1450
Width (W)	mm	800
Height (H)	mm	1000
Weight net	Kg	570
loading capacity (units/containe	r)	
Sound @7 meter	dB	

Note

- 1. Generator continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hours period
- 2. Every generator strictly test on 0%、25%、75%、100%、110% load 、dynamic of the responsiveness ability, and all protections



DIESEL ENGINE

Engine	3M78	
Rated power/Speed	18.5 KW / 3000rpm	
Dry Weigh (approx.)	115 kg	
Number of Cylinders	3	
Bore	78 mm	
Stroke	85 mm	
Displacement	0.794 L	
Compression Ratio	19: 1	
Type of injection	Direct injection	
Intake System	Natural	
Intake Resistance	≤6.28 kPa	
Cooling System	Water cooled	
Fan	Pusher	
Battery Voltage	12V	
Type of Fuel	Diesel	
Type of Oil	15W40-CF4	
Oil Capacity	N/A	
Type of Coolant	Glycol mixture	
Coolant Capacity	N/A	
Back Pressure	N/A	
Fuel Consumption	230 (a/kW•h)	

Powerful engine and reliable running quality Durable running performace and was proofed by vehicle's application

Compact structure

Compact structure and metal materials saving for low

Low maintenance and repair cost

Air,fuel and oil tubes are silicone and stainless steel materials, which reduce leakage problems substantially

Excellent start perfomance

Fuel injector and pump were tested fully in Various environments, which provide excellent start and running preformance

ALTERNATOR

Alternator	162F	
Exciter	Brushless	
Cooling Fan	Cast alloy aluminum	
Windings	100% copper	
Insulation Class	H	
Winding Pitch	2/3	
Terminals	_12	
Drip Proof	IP23	
Altitude	≤1000m	
Air Flow	0.071 m³/s	
Voltage Regulation		
Telephone Interference		
Total harmonic TGH / THCat no load	< 1.5 % - on load < 5%	



Best structure

Excellent design ensures compact structure and perfect appearance

Excellent performance

Excitation enhanced system improves start and short circuit's protection performance

Less parts involved and the most market's demand lead to cheap price and fine quality

Easy maintenance and repair

Core parts won't be involved in repair job,AVR can be replaced easily, examining diode doesn't disassemble rotor.





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Control panel



Multiple specifications of output sockets available for selection

	Sec.
Measurement, displayment	AMF
Genset prime power Kw	AIVII
Power factor	
engine speed	
Phase to neutral voltage	
Phase to phase voltage	
Genset frequency	
Genset current	
Mains Phase to neutral voltage	(
Mains Phase to phase voltage	
Mains frequency	(
engine oil pressure	(
engine water temperature	
fuel level	
battery voltage	(
genset power KVA	(
Genset running time	(
Genset output KWh	(
History file	(
Alarm, shutdown function	
Low oil pressure warning,shutdown	(
High water temperature warning,shutdown	
Engine over and under speed shutdown	
Low fuel level warning,shutdown	(
battery low and high voltage warning	
battery chargering failure	
Genset low and high voltage warning, shut down	(
Alternator 3 phase voltage unbalance shut down	
Alternator low and high frequency warning,shut do	own (
Genset over load shutdown	(
Alternator 3 phase current unbalance shutdown	
Mains low and high voltage warning	
Mains low and high frequency warning	
Optional	`
Remote start and stop	
RS232 card	
USB card	
RS485 card	
Multi language display	
GPRS communication	
GPS communication	
CAN communication	(