Goodwind

GW-H583

HYUNDAI-Diesel Generator Set

Standards : CE : 2006/42/EC Machinery safety , ISO 9001, ISO 14001, ISO 45001, GB/T 2820.5, ISO 8528

Conditions : Reference environmental conditions according to the ISO 8528-1:2018 standard: Atmospheric pressure 100 KPa, ambient temperature 25°C, relative humidity 30%.

PRP: According to ISO 8528-1:2018, prime power refers to the generator set under agreed operating conditions and maintained in accordance with the manufacturer's specifications. The generator set is used in variable load applications and has no running hour limit throughout the year. The average allowable output power for 24 hours of continuous operation shall not exceed 75% of the rated power.

ESP : According to ISO 8528-1:2018, emergency power refers to application when the grid power is outage, or application under test conditions, and the annual running time does not exceed 200 hours. The average allowable output power for 24 hours of continuous operation shall not exceed 75% of the standby rated power.

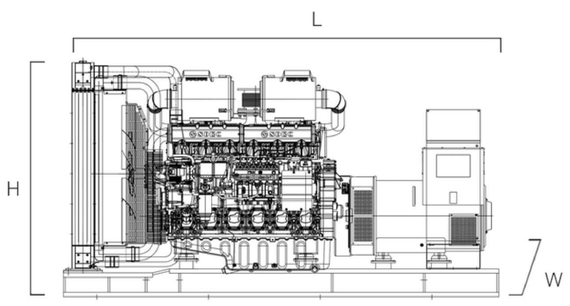
GENERATOR SPECIFICATION

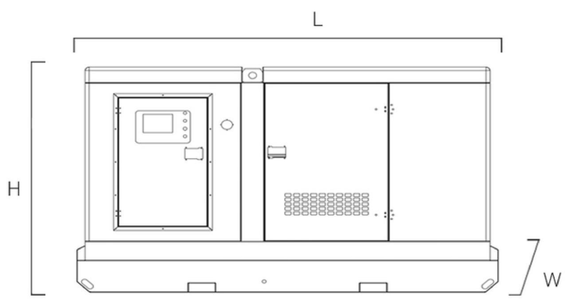
ITEMS	PRP	ESP
Power	529kVA	583kVA
Power	423kW	466kW
Frequency/Phase/RPM	50Hz / 3P / 1500	
Standard voltage	400/230V	
Available voltage	380/220V to 415/240V	

Water-cooled | Three Phase | 50 Hz | Diesel

GENERAL INSTALLATION

ITEMS	OPEN	SILENT
Dimension(L*W*H)(mm)	2840*1400*2090	4462*1850*2385
Weight(kg)	3280	4800
Fuel tank(L)	-	800
Sound pressure level		
@75%load @1m db		88
@75%load @7m db		75





NOTE：Weights and dimensions based on standard products. According to 2000/14/CE , sound data is provided at 7m for 75% prime power. For Actual installation,please contact the manufacturer.

PERFORMANCE DATA

Engine brand		HYUNDAI
Fuel		Diesel
Aspiration		Turbo charged
Cooling		Water-cooled
Governor		Electric
Displacement		14.618L
Application		Prime&Standby
Fuel consumption	100%ESP(L/H)	126.6
	100%PRP(L/H)	115.1
	75%PRP (L/H)	83.4
	50%PRP (L/H)	55.1

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ENGINE SPECIFICATION

Performance Data	
Engine brand	HYUNDAI
Engine model	DP158LD
Engine power	464/540KW
Cylinder arrangement	8 in v
Bore and stroke	128X142mm
Compression ratio	15:1
Rated speed	1500rpm
Engine type	4-stroke diesel

Exhaust System	
Exhaust gas temperature	536°C
Exhaust gas flow	90m³/min
Max back pressure	5.9kpa

Fuel system	
Injection pump	Bosch inline P-type
Governor	Electric

Cooling system	
Cooling method	Jacket Water and Charge Air Cooled
Water pump	Centrifugal type driven by belt
Cooling fan	Blower type, plastic
Prime engine coolant temperature	103/100°C (Max.)

Electrical System	
Charging generator	27.5V*45A
Starting motor	24V*7.0kW
Battery Voltage	24V
Battery Capacity	200AH

Air Intake System	
Air Filter	Dry type
Intake flow rate	30.8m³/min
Max. permissible restrictions	6.23kPa
Maximum allowable temperature for combustion air to enter	50°C

ALTERNATOR SPECIFICATION

Basic data	
Insulation & temperature rise	Class H / H
Excitation type	Self-excited
Winding leads	12
Winding connections (standard)	Star
Winding pitch	Two thirds
Number of phase	Three phase

ALTERNATOR SPECIFICATION

Basic data	
Type	Brushless
No.of bearings	Single
Coupling system	Flexible disc
Maximum over speed	2250RPM
Coating type	Vacuum impregnation
IP rating	IP23

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GENSET VERSION

Standard features	Optiona	Featuresl
● Diesel engine,50 degrees radiator, brushless alternator		
● Intelligent controller		
● Output circuit breaker(up to1250A)		
● Maintenance-free start battery, battery charge, battery switch		
● Steel industrial; silencer, exhaust bellows and elbows		
● Steel chasis and anti-vibration shock absorbers		
● Lifting and moving structure, expansion of oil and coolant discharge		
● Moving parts protection, hot parts protection		
● Special toolbox,delivery attached documentation		

ENGINE	● Water jacket preheater ● Oil Preheater, oil level maintainer,oil manual pump ● Heavy air filtration ● Residential silencer ● Remote radiator, heat exchanger
ALTERNATOR	● PMG/AREP excitation system ● Anti-condensation heater ● Winding/bearing RTD ● Double bearing structure ● IP44 protection class
CONTROL SYSTEM	● Synchronizing panel, remote control panel ● RS232/485,4G & GPS wireless, ethernet communication card ● Additional digital / analog input/output ● Monitoring software, mobile APP ● Ni-Cad batteries
GENERATING SET	● External fuel tank automatic fuel feeding ● ATS/output/combining/distribution cabinet ● Load test cabinet ● Mobile trailer ● Customized design

Ideal for...

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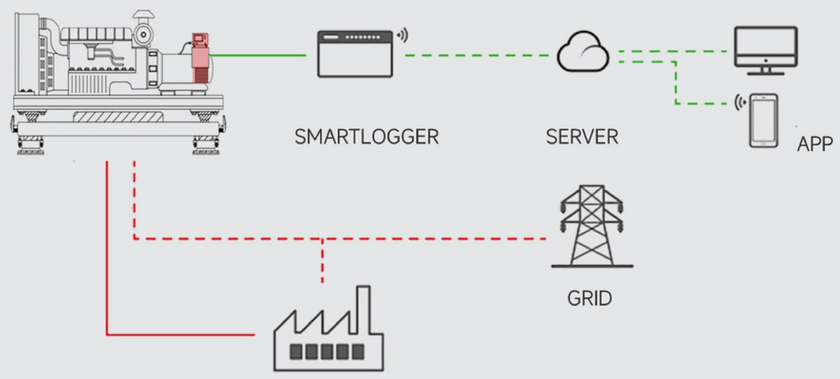
CONTROL SYSTEM
KEY FEATURES



Single generator set control-ler can be used in prime or standby scenarios

Manual and remote start,MRS application

Auto mains faiure,AMF application

Genset power/frequency/fac-tor/voltage/current detection

Engine/alternator /generator protections/emergency stop

Event log /running hours history / maintenance warning,LCD screen

User access management, software and tools are easy to use

Input or output configuration, USB communication port

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