



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

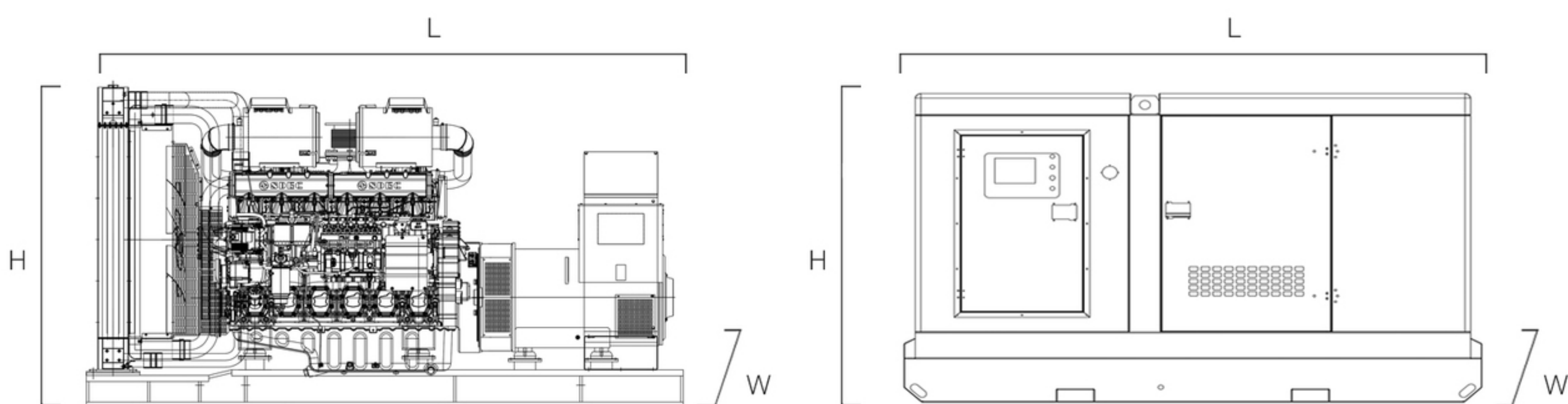
Conditions : Reference environmental conditions according to the ISO 8528-1:2018 standard: Atmospheric pressure 100 KPa, ambient temperature 25°C, relative humidity 30%.

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.

GENERAL INSTALLATION

ITEMS	OPEN	SILENT
Dimension(L*W*H)(mm)	1600*600*1100	2300*1000*1600
Weight(kg)	750	1150
Fuel tank(L)	-	180
🔊 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.

GENERATOR SPECIFICATION

ITEMS	PRP	ESP
Power	50kVA	55kVA
Power	40kW	44kW
Frequency/Phase/RPM	50Hz / 3P / 1500	
Standard voltage	400/230V	
Available voltage	380/220V to 415/240V	



Water-cooled



Three Phase



50 Hz



Diesel

PERFORMANCE DATA

Engine brand	SDEC	
Fuel	Diesel	
Aspiration	Turbo charged	
Cooling	Water-cooled	
Governor	Electric	
Displacement	3.5L	
Application	Prime&Standby	
Fuel consumption	100%ESP(L/H)	12
	100%PRP(L/H)	10.23
	75%PRP (L/H)	7.8
	50%PRP (L/H)	5.51

ENGINE SPECIFICATION



Performance Data	
Engine brand	SDEC
Engine model	4ZT3.5-G21
Engine power	49/54KW
Cylinder arrangement	4 in line
Bore and stroke	105X115mm
Compression ratio	18:1
Rated speed	1500rpm
Engine type	4-stroke diesel

Exhaust System	
Exhaust gas temperature	480°C
Exhaust gas flow	11.6m³/min
Max back pressure	10kpa

Fuel system	
Injection pump	KANGDA
Governor	Mechanical

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

Cooling system

Cooling method	Fresh water forced circulation
Water pump	Centrifugal type driven by belt
Cooling fan	Blower type, plastic
Prime engine coolant temperature	104/100°C (Max.)

Electrical System

Charging generator	12V*70A
Starting motor	12V*3.8kW
Battery Voltage	12V
Battery Capacity	120AH

Air Intake System

Air Filter	Dry type
Intake flow rate	5.16m³/min
Max. permissible restrictions	4kPa
Maximum allowable temperature for combustion air to enter	50°C

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

GENSET VERSION

Standard features
● 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

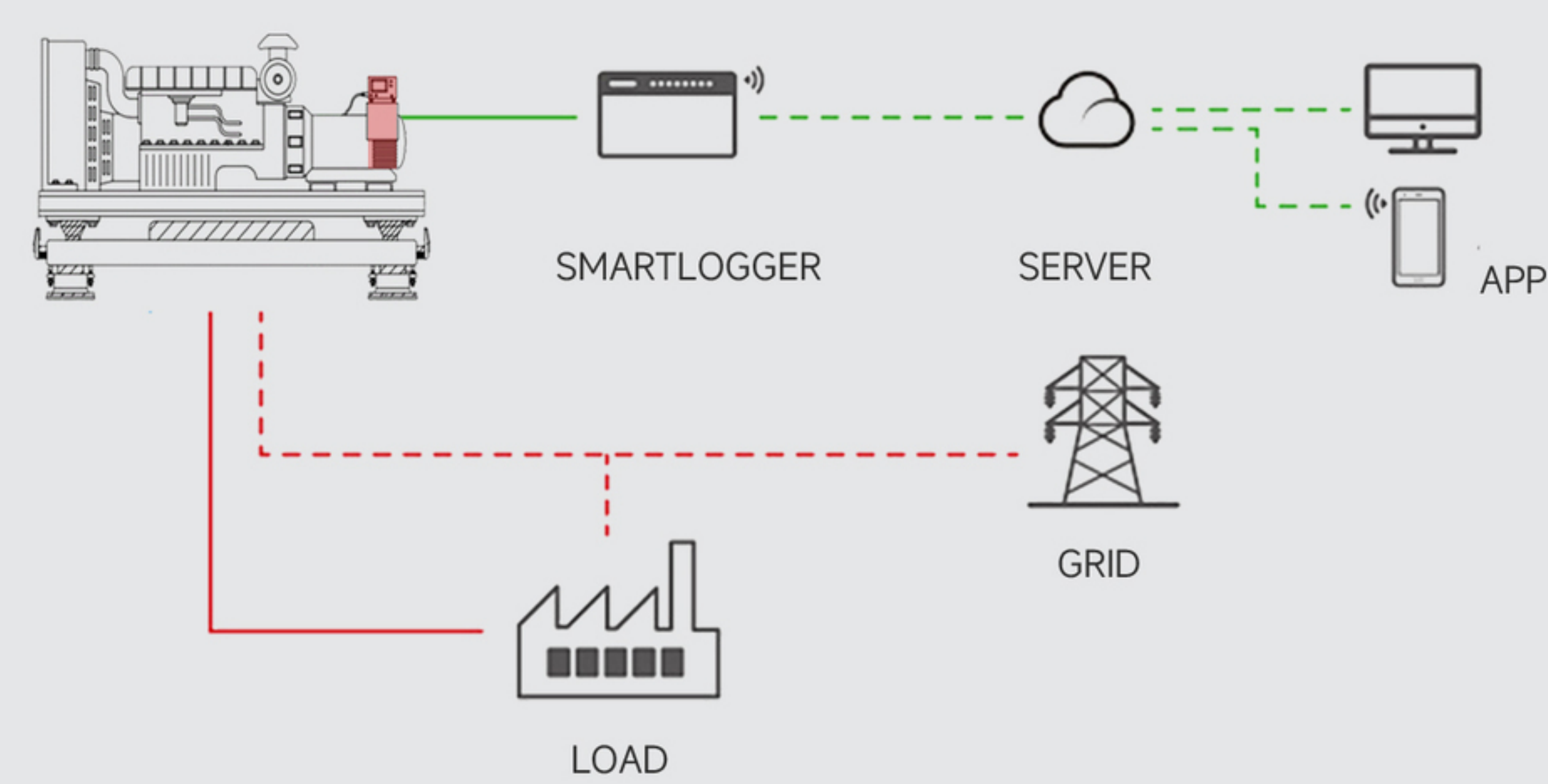


Optiona	Featuresl
ENGINE	● Water jacket preheater ● Oil Preheater, oil level maintainer,oil manual pump ● Heavy air filtration ● Residential silencer ● Remote radiator, heat exchanger
ALTERNATOR	● PMG/AREP excitation system ● Anti-condensation heater ● Winding/bearing RTD ● Double bearing structure ● 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...



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

