



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

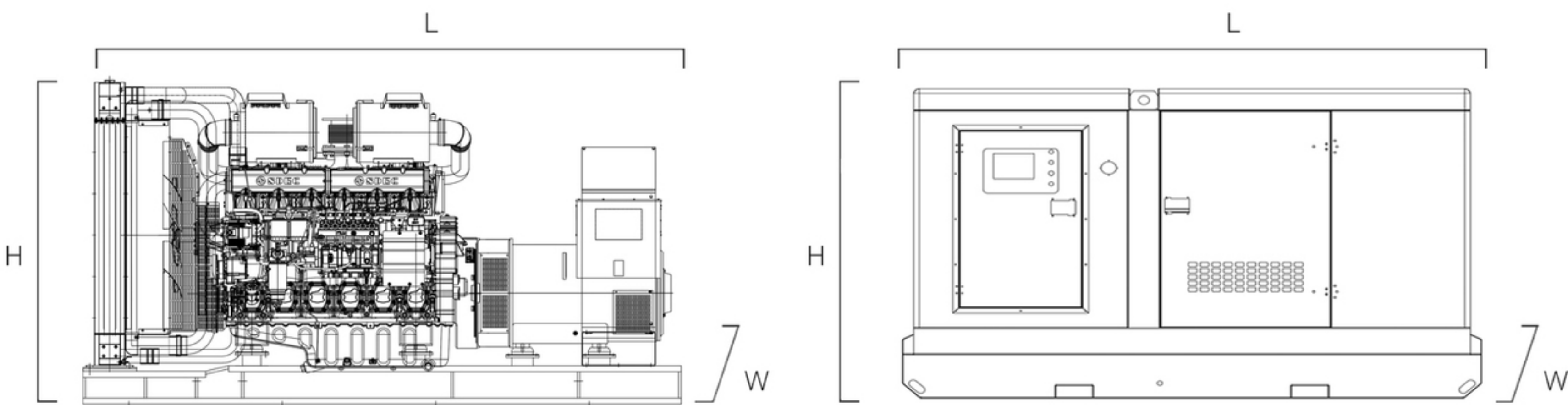
**Conditions :** Reference environmental conditions according to the ISO 8528-1:2018 standard: Atmospheric pressure 100 KPa, ambient temperature 25°C, relative humidity 30%.

**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)   | 2500*1060*1710 | 3800*1650*2100 |
| Weight(kg)             | 1980           | 2600           |
| 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               | 168kVA               | 185kVA |
| Power               | 134kW                | 148kW  |
| 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     | HYUNDAI       |      |
| Fuel             | Diesel        |      |
| Aspiration       | Turbo charged |      |
| Cooling          | Water-cooled  |      |
| Governor         | Common Rail   |      |
| Displacement     | 8.07L         |      |
| Application      | Prime&Standby |      |
| Fuel consumption | 100%ESP(L/H)  | 38.9 |
|                  | 100%PRP(L/H)  | 35.4 |
|                  | 75%PRP (L/H)  | 26.7 |
|                  | 50%PRP (L/H)  | 18.7 |

ENGINE SPECIFICATION



| Performance Data     |                 |
|----------------------|-----------------|
| Engine brand         | HYUNDAI         |
| Engine model         | P086TI-1        |
| Engine power         | 149/164KW       |
| Cylinder arrangement | 6 in line       |
| Bore and stroke      | 111X139mm       |
| Compression ratio    | 16.4:1          |
| Rated speed          | 1500rpm         |
| Engine type          | 4-stroke diesel |

| Exhaust System          |            |
|-------------------------|------------|
| Exhaust gas temperature | 500°C      |
| Exhaust gas flow        | 38.8m³/min |
| Max back pressure       | 5.9kpa     |

| Fuel system    |                     |
|----------------|---------------------|
| Injection pump | Bosch inline P-type |
| Governor       | Common Rail         |

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 | 103/100°C (Max.)                |

Electrical System

|                    |           |
|--------------------|-----------|
| Charging generator | 28.5V*45A |
| Starting motor     | 24V*6.0kW |
| Battery Voltage    | 24V       |
| Battery Capacity   | 100AH     |

Air Intake System

|                                                           |             |
|-----------------------------------------------------------|-------------|
| Air Filter                                                | Dry type    |
| Intake flow rate                                          | 14.18m³/min |
| Max. permissible restrictions                             | 6.23kPa     |
| 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 |
|---------------------------------------------------|

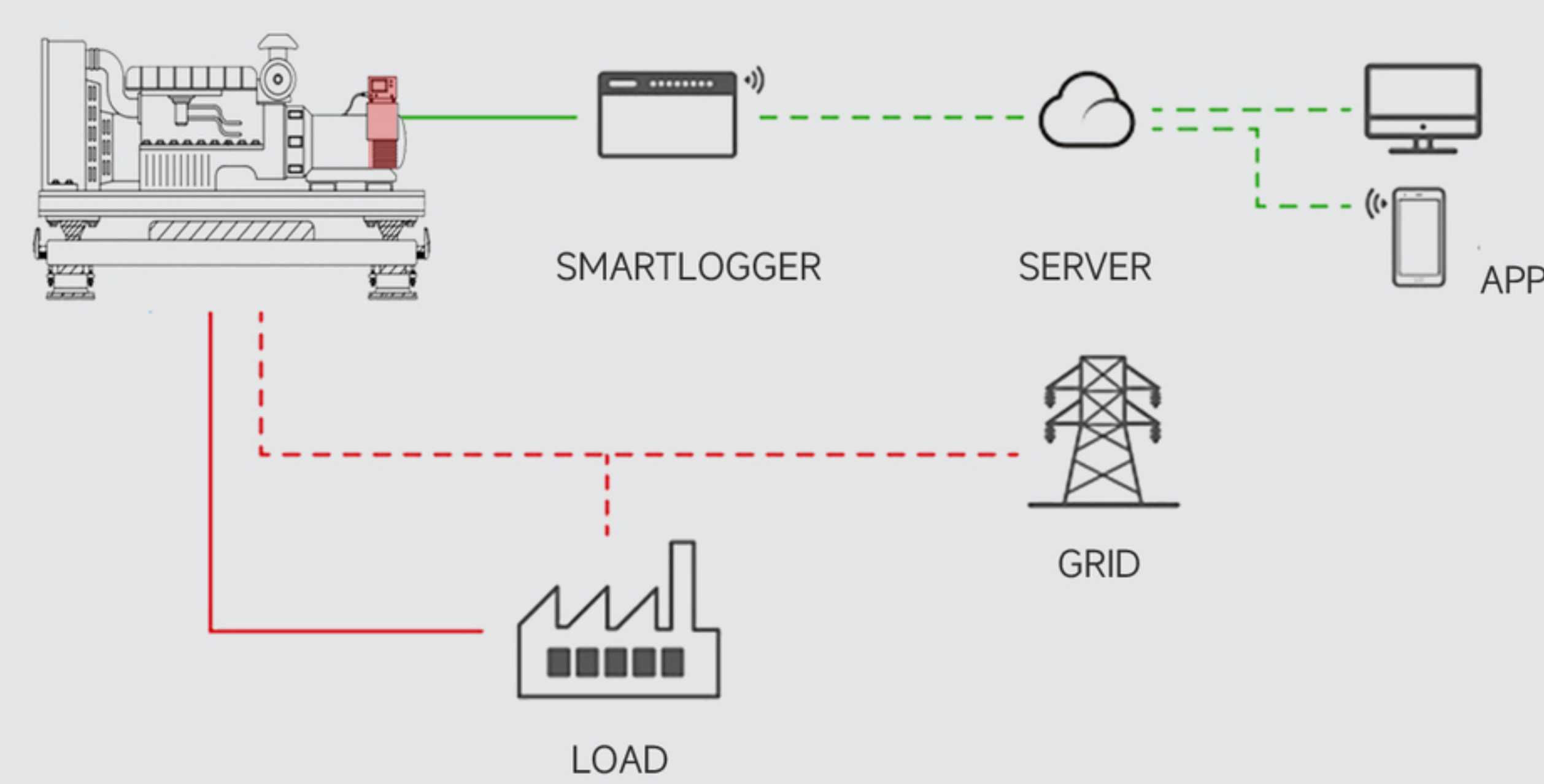


| Optiona        | Featuresl                                                                                                                                                                                                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ENGINE         | <ul style="list-style-type: none"><li>● Water jacket preheater</li><li>● Oil Preheater, oil level maintainer,oil manual pump</li><li>● Heavy air filtration</li><li>● Residential silencer</li><li>● Remote radiator, heat exchanger</li></ul>                                             |
| ALTERNATOR     | <ul style="list-style-type: none"><li>● PMG/AREP excitation system</li><li>● Anti-condensation heater</li><li>● Winding/bearing RTD</li><li>● Double bearing structure</li><li>● IP44 protection class</li></ul>                                                                           |
| CONTROL SYSTEM | <ul style="list-style-type: none"><li>● Synchronizing panel, remote control panel</li><li>● RS232/485,4G &amp; GPS wireless, ethernet communication card</li><li>● Additional digital / analog input/output</li><li>● Monitoring software, mobile APP</li><li>● Ni-Cad batteries</li></ul> |
| GENERATING SET | <ul style="list-style-type: none"><li>● External fuel tank automatic fuel feeding</li><li>● ATS/output/combining/distribution cabinet</li><li>● Load test cabinet</li><li>● Mobile trailer</li><li>● Customized design</li></ul>                                                           |

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 failure,AMF application



Genset power/frequency/factor/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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