

## RPM1800 60Hz

### Rating Range

<b>Standby:</b>	kW	21.2
	kVA	26.5
<b>Prime:</b>	kW	19.3
	kVA	24



## STANDARD FEATURES AND CHARACTERISTICS

### QUALITY STANDARDS

- 👁️ All generators comply with international design and quality standards, such as ISO8528 ( GB/T2820-97), ISO3046,BS.EN60034, BS5000, IEC34-1, GB755, VDE0530, CSA22-2, AS1359, as well as the requirements of ISO 9001 and ISO14001.
- 👁️ CE certificate for the alternator.
- 👁️ Diesel engine and alternator OEM authorization certificate and their quality assurance.
- 👁️ Other standards and certifications can be considered on request.

### ASSEMBLY

- 👁️ The engine and alternator are close coupled by means of an SAE flange . A full torsional analysis has been carried Out to guarantee no harmful vibration will occur.
- 👁️ Anti-vibration pads are affixed between engine alternator feet and the base frame. Thus ensuring complete Vibration isolation of the rotating assemblies and enabling the machine to be placed on an uneven surface without any detrimental effects.
- 👁️ For durability and corrosion resistance, all iron and steel surfaces of canopy fabrications have been treated for coating by grit blast cleaning. Then covered by special three layers painting which provides an excellent corrosion resistant surface.

### CONTROL SYSTEM AND PROTECTION

- 👁️ Controllers are available for all applications. It contains Deep Sea, Delf, Comap or other famous brands. According to their different functions, the control systems can be specified into key start controller model, automatic start control model and PCRC three remote control systems. See controller features inside.

### WARRANTY

- 👁️ SUPERWATT Company provides one-source responsibility for the generator set and accessories. Each SUPERWATT generating set has been got through 1.5 hours Load test for running 0%,25%,50%,75%,100% and 110% load, all protective devices and control function are simulated and checked before despatch.
- 👁️ Engine and Alternator are guaranteed for a period of 12months from the date of commissioning or 18 months from shipping,whichever occurs first.
- 👁️ Convenience for operation and maintenance, backed by KUBOTA global service network.

#### Prime power(P)

These ratings are applicable for supplying continuous electrical power(at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% over-load power for 1 hour in 12 hours.

#### (S) Standby power

Standby power is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500h of operation per year.

## ●Engine Model

V2203-BG

## ●Alternator

### ENGINE SPECIFICATIONS

Manufacturer	KUBOTA
Type	Vertical 4-cycle, liquid cooled Diesel
No. of Cylinders	4
Bore×Stroke(mm)	87×92.4
Displacement(L)	2.197
Standby power(kW)	24.2
Continuous power(kW)	20.2
Combustion system	E-TVCS
Intake system	Natural aspirated
Fuel injection pump	Bosch type PFR MD pump
Direction of rotation	Counterclockwise
Injection nozzle	Throttle type
Compression ratio	23.0
Lubricating oil	Quality better than CD class
Oil cap capacity(L)	9.7
Cooling system	Radiator cooling
Starter capacity(V-A)	12-1.4
Alternator capacity(V-A)	12-40.0
Dry weight(kg)	180

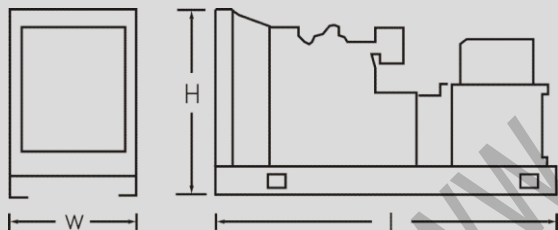
Manufacturer	Stamford/Meccalte/Leroy-somer
Frequency and Speed	60Hz/1800rpm
Voltage (V)	220
Prime capacity(kVA)	28
Prime power(kW)	22
Power efficiency(%)	82.5
Voltage regulation	±0.5%
Rated power factor	0.8
winding type	P2/3
Overspeed(rpm)	2250
Sustained short circuit	300%(3IN):20S
Protection class	IP23

Alternators meet the requirement of BS EN 60034 and the relevant section of other international standards such as BS5000, VDE 0530, NEMA MG1-32, IEC34, CSAC22.2-100, As1359, and other standards and certifications can be considered on request. The 2/3 pitch design avoids excessive neutral currents. With the 2/3 pitch and carefully selected pole and tooth designs, ensures very low waveform distortion. Brushless alternator with brushless pilot exciter for excellent load response. The insulation system is class H, easy paralleling with mains or other generators, standard 2/3 pitch stator windings avoid excessive neutral currents.

## Dimensions and Weights

### OPEN STYLE

Overall Size, L×W×H, mm	1650×730×1170
Weight(radiator model),net,kg	700



### SOUNDPROOF STYLE

Overall Size, L×W×H,mm	2170×960×1280
Weight(radiator model),net,kg	1150



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

Altitude: Derate 2.0% per 300m(984 ft.) elevation above 1000m(3279 ft.) up to a maximum elevation of 2450m(8000 ft.).  
 More than 2450m(8000ft), please contacts with us or our dealer seek the help.  
 Temperature: Derate 6.0% per 11°C(20°F) temperature above 40°C(104°F).

### Control System:

The DSE6120 Auto Mains (Utility) Failure Control Module are suitable for a wide variety of single gen-set applications.

Monitoring engine speed, oil pressure, coolant temperature, frequency, voltage, current, power and fuel level, the modules give comprehensive engine and alternator protection. This is indicated on a large back-lit LCD text display via an array of warning, electrical trip and shutdown alarms in multiple languages.

Electronic J1939 (CAN) and non-electronic MPU and alternator sensing engine support for diesel, gas and petrol engines all in one variant. With a number of flexible inputs, outputs and protections, the modules can be easily adapted to suit a wide range of applications.

Through USB Communication both modules can be configured using the DSE Configuration Suite PC Software or through the module's front panel editor.

Using the DSE Configuration Suite PC Software the controller is easy to use and configure which allows alteration of operating parameters, sequences, timers and alarms.

### Key Benefits:

Automatically transfers between mains (utility) and generator

Increased input and output expansion capability via DSENet®

Hours counter provides accurate information for monitoring and maintenance periods

User-friendly set-up and button layout for ease of use Multiple parameters are monitored simultaneously which are clearly displayed on a large back-lit text display via multiple languages

The module can be configured to suit a wide range of Applications

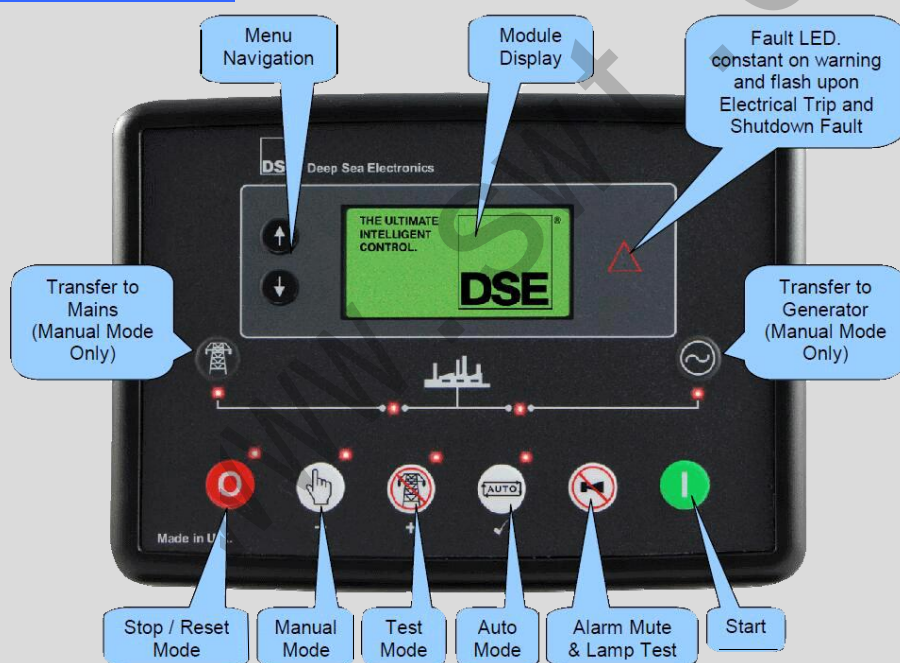
Compatible with a wide range of CAN engines including Tier 4

Uses DSE Configuration Suite PC Software for simplified configuration

Licence-free PC software

IP65 rating (with optional gasket) offers increased resistance to water ingress

### Description For Module DSE6120:



Standard functions	Shutdown	Warning
Engine Control	Loss of Speed Signal	Alternator Under / Over Voltage
Generator Monitoring	Alternator Under / Over Voltage	Alternator Under/ Over Frequency
Generator Protection	Alternator Under/ Over Frequency	Mains Under / Over Voltage
Engine Monitoring	Mains Under / Over Voltage	Mains Under/ Over Frequency
Clear Text Display	Mains Under/ Over Frequency	Under / Over Speed
	Under / Over Speed	Low Oil Pressure Pre-Alarm
	Low Oil Pressure	High Engine Temperature Pre-Alarm
	High Engine Temperature	High/Low Battery Voltage
	Phase Sequence Electrical (Option)	Over-current
	Earth Fault (Option)	Periodic maintenance