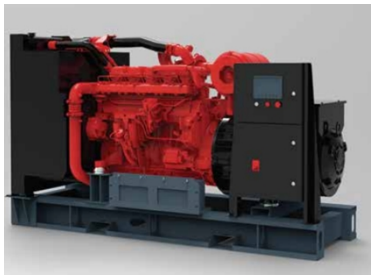
MPMC BEYOND ENERGY

Model: MSS1152S-2-SC

Powered by SCANIA



Applicable Standards

- ISO 8528-5:2018
- GB/T2820.5-2009
- CE
- ISO 3046
- ISO 12944 (*SC only)

General Information		Rated Power			
Frequency	Voltage	Prime Power		Standby Power	
Hz	V	kVA	kW	kVA	kW
50Hz Rated	415V/240V	N/A	N/A	N/A	N/A
	400V/230V	N/A	N/A	N/A	N/A
	380V/220V	N/A	N/A	N/A	N/A
	220V/110V	N/A	N/A	N/A	N/A
60Hz	480V/277V	1303	1042	1440	1152
	440V/254V	1303	1042	1440	1152
	400V/230V	N/A	N/A	N/A	N/A
	380V/220V	N/A	N/A	N/A	N/A
	220V/127V	N/A	N/A	N/A	N/A
	220V/110V	N/A	N/A	N/A	N/A
Power Factor		0.8 Lagging			
Engine		2*DC16 093A 02-54			
Rated Speed		1800 RPM			
Fuel Type		Grade No. 2D per ASTM D975			
Lube-oil Type		API Service CF Class SAE 15W-40			
Alternator		2*S5L1D-E4			

Noise Level		50Hz	60Hz
Average Value @1m,75%load	OE Series dB(A)	TBA	N/A
	SC Series dB(A)	TBA	N/A

Fuel Consumption		50Hz	60Hz
Load Ration	L/h@110%	N/A	309
	L/h@100%	N/A	274
	L/h@75%	N/A	203
	L/h@50%	N/A	139

Dimension and Weight	OE Series Open-type	SC Series Silent-type
Length (L) mm	N/A	6058
Width (W) mm	N/A	2438
Height (H) mm	N/A	2591
Net. Weight (kg)	N/A	12150

Note: Specifications and illustrations are subject to revision without notice.

Environmental Conditions

- Ambient temperature: +5°C~+40°C (Rated Power)
- Maximal ambient temperature：50°C
- Altitude: ≤1000m
- Anti-dust, anti-corrosion and ultra-silent

*Remark: If your conditions are different from the above, please contact our sales.

Factory Inspection

- Complete design and quality inspection
- 0%, 25%, 50%, 75%, 100%, 110% load test
- Noise test
- Function test
- Protection test

ISO9001:2015 Quality system certified · ISO14001 System certification · OHSAS18001 System certification · CE certificate

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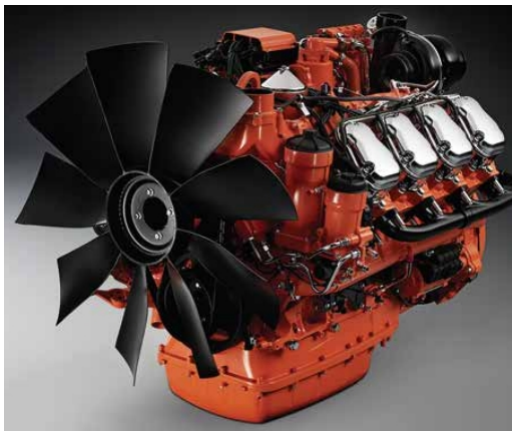
Engine Specifications



Engine model	2*DC16 093A 02-54	
Emission	N/A	
Number of cylinders & Arrangement	8 & Vee	
Cycle	Four stroke	
Aspiration	Turbocharged	
Bore x Stroke	130 x 154 mm	
Displacement	16.4 L	
Compression ratio	15.7 ： 1	
Gross prime power /speed	N/A kWm/1500 rpm	1152 kWm/1800 rpm
Gross standby power /speed	N/A kWm/1500 rpm	1268 kWm/1800 rpm
Speed governor	EMS	
Cooling system	Water Cooled	
Total lubrication system capacity	96 L	
Coolant capacity (engine only)	136 L	
Starter motor & Charge alternator	DC 24V	DC 24V 35Amps
Fuel available	Grade No. 2D per ASTM D975	

☑Industrial silencer / ☐Residential silencer / ☐Critical silencer

☐Heavy duty air filter / ☐Single-core air filter

☑Anti-vibration mount

☐Water-fuel separator / ☐ Multi-water-fuel separators

☐Coolant level sensor

☑Lube-oil pressure sensor

☐Lube-oil auto refilling meter

☐Smoke temperature sensor

☑Replaceable fuel filter, oil filter

☐Spark arrestor

☑-18℃ start up battery / ☐-45℃ start up battery

☑Flexible fuel connection hoses

☐Jacket water heater / ☐ Fuel jacket water heater

☑Coolant temperature sensor

☐Lube-oil temperature sensor

☐Lube-oil auto refilling tank

☐Lube-oil manual pump

☐Breath box

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Alternator Specifications

Alternator model	2*S5L1D-E4
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding leads	12
Insulation level	H class
Temperature rise	H class
Excitation	Self-Excited
AVR model	AS440
Winding Pitch	2/3
IP rating	IP23
Bearing	Single bearing
Voltage regulator	±1%
☐Space heater	☐Air filter (5% derating)
☐Anti-harsh environment	☐RTD ☐STD

De-rates

All values tabulated above are subject to the following reductions:

- 5% when air inlet filters are fitted
- 3% for every 500 meters by which the operating altitude exceeds 1000 meters above mean sea level
- 3% for every 5°C by which the operational ambient temperature exceeds 40°C @ Class H temperature rise (please refer to applications for ambient temperature de-rates at other temperature rise classes)
- For any other operating conditions impacting the cooling circuit please refer to applications

Note: Requirement for operating in an ambient exceeding 60°C and altitude exceeding 4000 meters (for <690V) or 1500 meters (for >690V) must be referred to applications.

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Control Panel

DSE 8610 MKII

Auto start and auto mains failure control module
(Alternator frequency & can speed sensing)

Key benefits

- Compatible in load share systems containing DSE5500, DSE7500,DSE8000 and DSE8600 MKII series. Contact DSE for further details
- 132 x 64 pixel ratio display for clarity
- Real-time clock provides accurate event logging
- Ethernet communication, provides builit in advanced remote monitoring.
- Can be integrated into building management systems (BMS) and programmable logic control (PLC)
- Increased input and output expansion capability via DSENet®
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to ater ingress
- Advanced Internal PLC editor allows user configurable functions to meet specific application requirements.

Key features

- Comprehensive synchronising & loadsharing capabilities
- Built in governor and AVR control
- Base load (kW export) control
- Positive & negative kVAr export control
- Mains (Utility) decoupling protection
- 4-Line back-lit LCD text display
- Multiple Display Languages
- Five key menu navigation
- LCD alarm indication
- Heated display option available
- Customisable power-up text and images
- DSENet expansion compatibility
- Data logging & trending facility
- Internal PLC editor
- Protections disable feature
- Fully configurable via PC using USB, RS232, RS485 & Ethernet communication
- Front panel configuration with PIN protection
- Power save mode
- 3 phase generator sensing and protection
- Generator current and power monitoring (kW, kvar, kVA, pf)
- kW and kvar overload alarms
- Reverse power alarms
- Over current protection
- Unbalanced load protection
- Independent earth fault protection
- Breaker control via fascia buttons
- Fuel and start outputs configurable when using CAN
- 8 configurable DC outputs
- 2 configurable volt-free relay outputs
- 4 configurable analogue/digital inputs
- Built in sensors to support 0 V to 10 V & 4 mA to 20 mA
- 12 configurable digital inputs
- Configurable 5 stage dummy load and load shedding outputs
- CAN, MPU and alternator frequency speed sensing in one variant
- Real time clock
- Manual and automatic fuel pump control
- Engine run-time scheduler
- Fuel usage monitor and low fuel level alarms
- Simultaneous use of all communication ports
- Remote SCADA monitoring via various DSE software applications
- MODBUS RTU & TCP support with configurable MODBUS pages for integration into building management systems (BMS)
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- 3 configurable maintenance alarms
- Compatible with a wide range of CAN engines, including tier 4 engine support
- Uses DSE Configuration Suite PC Software for simplified configuration
- Power modes for when in parallel with the mains
- Redundant MSC communication wired to CAN ports
- True manual breaker control when in CAN mode
- Water in fuel digital input

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Generator Options

Basement :

☐6 hours fuel tank
☐8 hours fuel tank
☐12 hours fuel tank
☐24 hours fuel tank
☐Bonded fuel tank
☐Fuel leakage sensor
☑Lifting points
☐Forklift holes
☐Drag holes
☑Expansion joint
☐Quick connector of external fuel pipe & tank
☐Three-way valve
☐Mechanical fuel level gauge
☐Electronic fuel level sensor
☐C-3 painting /☐C-4 painting /☐C-5 painting
☐Others:

Electrical system :

☐CHINT Breaker /☐ ABB Breaker /☐Schneider Breaker /☐Others:
☑Manual breaker /☐Motorized breaker
☑3P Breaker /☐4P Breaker
☐RCD
☐MEN
☑External AC charger
☐Socket:
☐Plug:

Silent Generator Only :

☐Galvanized canopy
☐Stainless steel canopy & hardware
☐Sponge materials /☑Rock wool with mesh plate
☑IP 21 /☐IP 22 /☐IP23
☐Zinc alloy door lock
☐Zinc alloy hinge
☐Access door for radiator
☐Aluminum canopy

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