

Model: MSS1280S-1-C

Powered by SCANIA



Applicable Standards

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

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

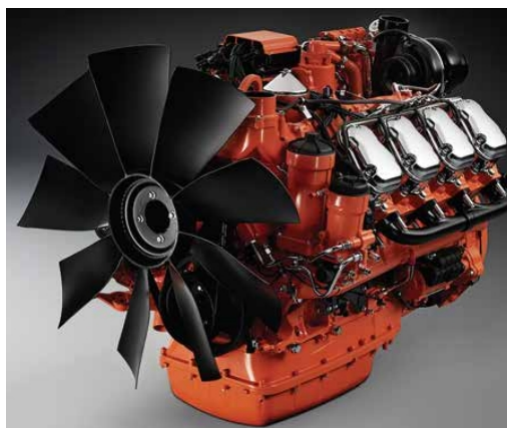
- Complete design and quality inspection
- 0%, 25%, 50%, 75%, 100%, 110% load test
- Noise test
- Function test
- Protection test

General Information			Rated Power		
Frequency	Voltage		Prime Power	Standby Power	
Hz	V		kVA	kW	kVA
50Hz Rated	415V/240V		1280	1024	1408
	Rated 400V/230V		1280	1024	1408
	380V/220V		1280	1024	1408
	220V/110V		N/A	N/A	N/A
60Hz	480V/277V		N/A	N/A	N/A
	440V/254V		N/A	N/A	N/A
	400V/230V		N/A	N/A	N/A
	380V/220V		N/A	N/A	N/A
	220V/127V		N/A	N/A	N/A
	220V/110V		N/A	N/A	N/A
Power Factor			0.8 Lagging		
Engine			2*DC16 093A 02-54		
Rated Speed			1500 RPM		
Fuel Type			Grade No. 2D per ASTM D975		
Lube-oil Type			API Service CF Class SAE 15W-40		
Alternator			2*S5L1D-F4		
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%		284	N/A	
	L/h@100%		257	N/A	
	L/h@75%		185	N/A	
	L/h@50%		126	N/A	
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.



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	1116 kWm/1500 rpm	N/A kWm/1800 rpm
Gross standby power /speed	1228 kWm/1500 rpm	N/A 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°C start up battery / ☐-45°C 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

Alternator Specifications



Alternator model	2*S5L1D-F4
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	$\pm 1\%$
☐ 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.

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 built 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 water 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

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

Electrical system :

- ☐ CHINT Breaker / ☐ ABB Breaker / ☐ Schneider Breaker / ☐ Others:
- ☒ Manual breaker / ☐ Motorized breaker
- ☒ 3P Breaker / ☐ 4P Breaker
- ☐ RCD

Silent Generator Only :

- ☐ Galvanized canopy
- ☐ Stainless steel canopy & hardware
- ☐ Sponge materials / ☒ Rock wool with mesh plate
- ☒ IP 21 / ☐ IP 22 / ☐ IP 23

- ☐ 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:

- ☐ MEN
- ☒ External AC charger
- ☐ Socket:
- ☐ Plug:

- ☐ Zinc alloy door lock
- ☐ Zinc alloy hinge
- ☐ Access door for radiator
- ☐ Aluminum canopy



MPMC POWERTECH CORP.

sales@mpmc-china.com | www.mpmc-china.com



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*All information in this document is substantially correct at time of printing and may be altered subsequently. Final weight and dimensions will depend on completed specification.