Power Systemsth

DT57-DT63S (3029 60 Hz)

Gensets Small Range



LEROY SOMER

Ratings @ 0.8 PF		Prime Rating	Stand-by Rating		
	Voltage*1	Frequency*2	DT57* ³	DT63S*4	Alternator
	220/380 V	60 Hz	57 kVA	62.5 kVA	TAL042H 6S

The above ratings represent the generating set capability guaranteed within ±3% at the reference conditions equivalent to those specified in ISO 8528/1 standard.



Pictures for Gensets and canopies could vary from actual product.

Notes

1. The applicable voltage range is 380V to 400V for 60Hz applications. For other voltages, please consult factory.

2. This generating set is of fixed speed of 1800 rpm.

3.DT57 is the prime power rating of the generating set is where a variable load and unlimited hour usage are applied with an average load factor of 80% of the prime rating over each 24-hour period. Noting that a 10% overload is permitted for 1 hour in every 12-hour operation.

4.DT63S is the standby power rating of the generating set is where a variable load limited to an annual usage up to 500 hours is applied, with 300 hours of which may be continuous running. Noting that no overload is permitted.

Certifications



- The complete Generating Set is type-tested according to ISO 8528-8 Standard.

- The control panel is certified by an ISO 17025 accredited laboratory to have IP55 according to

IEC 60355

Quality ISO 9001

Open Type Dimensions

Length	1800 mm
Width	770 mm
Height	1220 mm
Weight	645 Kg

Engine Technical Data

Make & Model	JOHN DEERE 3029HFG20			
Cylinders & Arrangement	3; Vertical in-line			
Bore & Stroke (mm)	106 x 110			
Induction system	Turbo-Aftercooled			
Combustion	Direct injection			
Cycle	4 stroke			
Compression ratio	16.3:1			
Cooling System	Water cooled			
Displacement	2.9 liters			
Lube oil capacity	8.0 liters Max			
Coolant capacity	12 liters			
Standard governor (Optional)	Mechanical (Electronic)			
Engine Speed	1800 rpm			
Fuel & [Oil] Cons. (L/H) @ 100% Load	15.8 [0.031] @ 50% Load 8.65 [0.017]			
Fuel & [Oil] Cons. (L/H) @ 75% Load	12.2 [0.024] @ 25% Load 4.9 [0.011]			
Radiator Cooling Air Flow (m ³ /s)	1.6			
Emissions regulations	For non-regulated territories			
Exhaust temperature °C (max)	515			
Max exhaust gas flow (m ³ /min)	12.7			
Max. allowed back pressure (kPa)	7.5			

The above performance data are valid as per the following specs:

Diesel Fuel is according to EN590 standard or equivalent.
Lubricating oil is according to Grade SAE 15W-40 API Cl4or CJ4.
The anti-freeze added should be compliant with ASTM D6210.

Alternator Technical Data

Make & Model	Leroy Somer TAL042H	1 6S	
Frequency / No. of poles	60Hz / 4P	Winding pitch	2/3
Ingress protection	IP23	AVR model	R120
Insulation class	Н	Overspeed	2250 R.P.M.
Terminals (Optional)	6 (12)	Voltage regulation	±1%
Excitation system	SHUNT	Coolant air flow	0.12 m ³ /s

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Control Panel Specifications

GMP260MKIII (DSE6110 MKIII) panel is an automatic start generating set panel of microprocessor-based design which is capable of interfacing with electronic engine through the can-bus J1939. It is fully configurable by PC software, yet most settings can be programmed by front fascia buttons. If Mains voltage is to be monitored, DSE6120MKIII can be offered.

Circuit Breaker Schneider or ABB, 3 Pole MCB (4 Pole available as Optional)



Construction

Sheet Fabrication	CNC shearing & bending
Paint type	Heat-treated powder-coated
Paint application	Electrostatic corona spraying
Durability tests	 IMPACT [EN ISO 6272] Salt spray resistance [ASTM B117-73] Humidity Resistance [ASTM D2247]
Compliance	 Panel is compliant with [IS08528-8] Clearance & Creepage [IEC60355-1] Leakage current & Dielectric strength [IEC60355-1] Protection against electric shock [IEC600 364-4-41]
Degree of protection	IP55
Wire crimping	 Crimping force up to 20KN Accuracy of 0.01mm Each crimping is checked by Komax CFA+
Wire coding	 Wires are coded by wire color and cross-section Wires are coded by printed numbers Wires are coded by printed function of the wire

Protection Control Instrumentation (OPTIONAL Note 1) (OPTIONAL Note^{1,3}) (OPTIONAL Note^{1,3}) (standard) (standard) (standard) High oil temperature Gen AC Voltage: 3ph VLL & VLN Lube oil temperature Over /Under AC voltage Remote start input Battery Changer: 5A, 10A, UL Over /Under frequency High exhaust temperature Gen Frequency: Hz Exhaust temperature **Emergency Stop button** Fuel pump control **Delayed Over current** Low fuel pressure Common Alarm volt-free contact Gen Current: 3 phase A Engine Inlet air (Boost) pressure Extension: Low coolant pressure Power: KW, KVA, KVAR & PF Charging ammeter Short-circuit Ethernet —Modbus TCP Event log (100 events) Low fuel level Energy: KWhr, KVAhr, KVARhr Fuel pressure Over KW RS485- Modbus RTU Weekly Exerciser Low oil level Lube Oil pressure Coolant pressure **High Engine Temperature** Audible Alarm GPS tracker High winding temperature Standard CANbus J1939 Water in Fuel Detection Engine coolant temperature Fuel level Low oil pressure High bearing temperature **Battery DC Voltage** Lube oil level Maintenance Alarm Pre/Post heat control Low boost pressure Winding temperature 3xRTD **DC Alternator Voltage** High/Low Battery voltage Low coolant level Note 2 Fusible link fire protection **Engine Speed** Bearing temperature RTD

Kubota

Low coolant temperature

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Note 1: some OPTIONAL features could be standard if CANbus is established within electronic engines.

Note 2: Low coolant level protection is standard feature for Gensets above 200KVA, otherwise it is optional.

Note 3: There is limitation in the number of protections and measurements that can be offered with GMP260MK.

Other types of control Panels & Modules can be offered according to required specifications (DSE 7310/20, 7410/20, 8610, 8810 and Others).

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Genset Standard Features

Assembly:

Gensets are assembled at Ghaddar Machinery Factory in compliance with ISO 8528-8 standard.

Fabrication:

- The engine/alternator assembly rests on skid with Anti-vibration mounting pads.
- The skid is made up of durable sheet metals and beams exceeding "Vibration & Torsion" Resistance Norms.
- A skid mounted fuel tank is supplied with fuel gauge, filler cap, fuel inlet and outlet hoses.
- The control panel enclosure is made up of metal sheet .

Paint:

-The skid and control panel enclosure are painted with heat-treated and power-coated electrostati corona spraying.

- Paints passed durability tests conforming to international quality standards.
- Impact (EN ISO 6272)
- Salt Spray Resistance (ASTM B117-73)
- Humidity Resistance (ASTM D2247)

Works-Testing:

- All Gensets are tested prior to dispatch.
- Test is automatically generated and checked according to ISO8528
- Test certificate is issued for each Genset

Equipment:

- Water cooled Radiator with belt driven blower fan and full guarding
- Electric starter with solenoid Relay
- Battery Charging Alternator
- Energized to run solenoid
- Replaceable fuel, oil and air filters
- Heavy duty leads acid battery with matching capacity (Amps & CCA)
- One loose supplied industrial exhaust silencer 16 DB noise reduction level.
- Integral Fuel Tank.

Documentation:

- User Manual for Operation, Installation and Maintenance guidance
- Wring Diagram.
- Test Report
- Maintenance Schedule
- Catalogues for Engine, Alternator & AVR

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Genset Optional Features

- Manual & Automatic Transfer Switches,
- Synchronizing & Totalizing Panels
- Fuel water separator
- Water jacket heater
- Oil heater
- Fuel heater
- Battery heater
- Anti-condensation Heater
- Air Shut-off Valve
- Oil Sampler
- Pre-lube Oil Pump

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