

TPC 250

POWERED BY CUMMINS OSL9 - G3





power generation

Genset Model	TPC 250
Engine Model	QSL9-G3
Alternator Model	UCD274K/ TAL046D
Controller Model	Deep Sea 4520 MKII



OUTPUT RATINGS KVA POWER KVA 250 275 284 313 KW POWER KW 200 220 227 250 RATED SPEED r.p.m 1500 1800 230/400 110/220 VOLTAGE 240/415 220/380

PRIME RATINGS

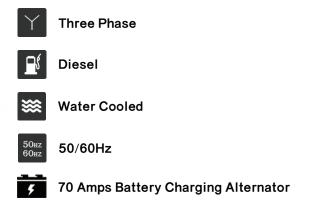
These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercial purchased power.

There is no limitation to the annual hours of operation and this model can supply 10% Overload power for 1hour in 12 hours operation.

STANDBY RATINGS

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

ENGINE SPECIFICATIONS



24V Negative

Model	QSL9-G3
Engine Type	4-stroke
Cooling System	Water Cooled
Bore and Stroke	114 x 145 mm
Compression Ratio	17.8:1
Number of cylinders and arrangement	6/ Vertical in Line
Circuit Breaker Type	3Pole MCCB
Aspiration Type	Turbo charged, Air Cooled

Manufacturer

Displacement 8.8 L





CUMMINS



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ALTERNATOR SPECIFICATIONS

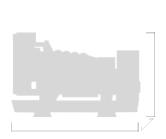
Manufacturer	Stamford/ Leroy Somer
Model	UCD274K/ TAL046D
No of Bearings	1
Insulation Class	Н
Ingress Protection Rating	IP23
Excitation System	SHUNT
AVR Model	AS440/ R150

Over speed (rpm)	2250
Voltage Regulation(steady state	e) +/- 1.0%
Wave from NEMA=TIF	50
Rated power factor	0.8
Winding Leads	12
Winding pitch	Two Thirds
Radio Interference	Supression is in line with European Standard EN61000-6

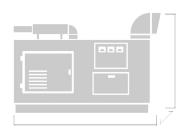
■ IP23 Protection

■ H Class Insulation

► SHUNT Excitation System



WEIGHT AND DIMENSIONS				
		OPEN	CLOSE	
LENGTH	mm	3000	4411	
WIDTH	mm	1100	1464	
HEIGHT	mm	1800	2209	
WEIGHT	kg	1988	3210	



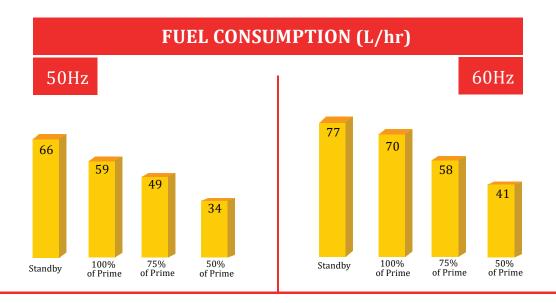






TPC 250 POWERED BY CUMMINS QSL9 - G3





			50	Hz	60	Hz
	SILENCER TYPE		INDUSTRIAL			
ST	MAX. ALLOWABLE BACK PRESSURE	kPa	10).2	10	0.2
AUS	SILENCER NOISE REDUCTION LEVEL					
XH,			PRIME	STANDBY	PRIME	STANDBY
田田	EXHAUST GAS FLOW	cfm (litre/s)	1685(795)	1800(850)	2040(965)	2165(1020)
	EXHAUST GAS TEMPERATURE	°C (°F)	535	585	560	595







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	AIR FILTER TYPE		Dry Replaceable Element with restriction Indicator			
-4			50	OHz	60)Hz
~			PRIME	STANDBY	PRIME	STANDBY
A	COMBUSTION AIR FLOW	cfm (litre/s)	655(310)	660(315)	770(365)	785(370)
	MAX. COMBUSTION AIR INTAKE RESTRICTION	in H20(kPa)	15 (3.7)		15 (3.7)	

LUBRICATION SYSTEM		
Oil Filter Type		Spin-on, Full Flow
Total Oil Capacity	L(US gal)	26.5 (7.0)
Oil Pan	L(US gal)	24.0 (6.3)
Oil Type		CH4 15W-40

COOLING SYSTEM			
		50Hz	60Hz
Water Pump Type		Cent	rifugal
Cooling System Capacity	L	15	15
Radiator Fan Load	kW	10	11
Radiator Cooling Airflow	m³/s	7.9	8
External Restriction to Cooling Airflow	Pa(mm H ₂ O)	127(13)	127(13)













DSE**4520 MKII**

AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

(ALTERNATOR FREQUENCY & CAN SPEED SENSING)

DSE4520 MKII



KEY FEATURES

- Auto Start and AMF mode in one module (DSE4520 MKII only)
- J1939-75 support and CAN alarm ignore function
- Alternator frequency & CAN speed sensing in one variant
- Largest back-lit icon display in its class (configurable as text display)
- Heated display option
- Real time clock provides accurate event logging
- Fully configurable via the fascia or PC using USB communication
- Extremely efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing (DSE4520 MKII only)
- Compatible with 600 V ph to ph nominal systems
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Accumulated power monitoring (kW h, kVA h, kVAr h)
- Generator overload protection (kW)
- Generator/load current monitoring and protection
- Fuel and start outputs (configurable when using CAN)
- 4 configurable DC outputs
- 5 V output
- Configurable fuel & crank outputs
- 3 configurable analogue/digital inputs

- 4 configurable digital inputs
- Configurable staged loading outputs
- 3 engine maintenance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Tier 4 engine instrumentation screens
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown protection upon fault condition
- LCD alarm indication
- Coolant temperature pre-alarm
- Event log (50)
- Fuel solenoid pulling circuit
- On-screen line diagram on/off functionality
- Configurable CAN instrumentation
- Water in fuel digital input
- Tank bund alarm digital input
- Generator at rest output
- ECU periodic wake-up for information retrieval
- Back-light power-save mode
- Adjustable delay crank timer
- Pre/post heat functionality

- Overload protection
- Mains/generator A/C system selection
- Output timer for external audible
- Accommodates a wide range of senders and temperatures

KEY BENEFITS

- Ultimate size to feature ratio
- Automatically transfers between mains (utility) and generator (DSE4520 MKII only)
- 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 the largest back-lit icon display in its class
- The module can be configured to suit a wide range of applications
- Uses DSE Configuration Suite PC Software for simplified configuration
- Compatible with a wide range of CAN engines including Tier 4
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress

SPECIFICATIONS

CONTINUOUS VOLTAGE RATING 8 V to 35 V Continuous

CRANKING DROPOUTS

Able to survive 0 V for 50 mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries. LEDs and backlight will not be maintained

MAXIMUM OPERATING CURRENT 85 mA at 12 V, 96 mA at 24 V

MAXIMUM STANDBY CURRENT 51 mA at 12 V. 47 mA at 24 V

MAXIMUM SLEEP CURRENT

MAXIMUM DEEP SLEEP CURRENT <10 uA at 12 V, <10 uA at 24 V

MAINS (UTILITY) DSE4520 MKII ONLY

VOLTAGE RANGE 15 V to 415 V AC (Ph to N) 26 V to 719 V AC (Ph to Ph)

FREQUENCY RANGE 3.5 Hz to 75 Hz

OUTPUT A (FUEL) 10 A short term, 5 A continuous, at supply voltage

OUTPUT B (START)

10 A short term, 5 A continuous, at supply voltage

AUXILIARY OUTPUTS C, D, E & F 2 A DC at supply voltage

GENERATOR

VOLTAGE RANGE

15 V to 415 V AC (Ph to N) 26 V to 719 V AC (Ph to Ph)

FREQUENCY RANGE 3.5 Hz to 75 Hz

OVERALL

140 mm x 113 mm x 43 mm 5.5" x 4.4" x 1.7"

PANEL CUT-OUT 118 mm x 92 mm 4.6" x 3.6"

MAXIMUM PANEL THICKNESS

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C -40 °F to +185 °F

OPERATING TEMPERATURE RANGE

-30 °C to +70 °C -22 °F to +158 °F

-40 °C to +70 °C (for heated display variant) -40 °F to +158 °F (for heated display variant)







TECHNOPOWER









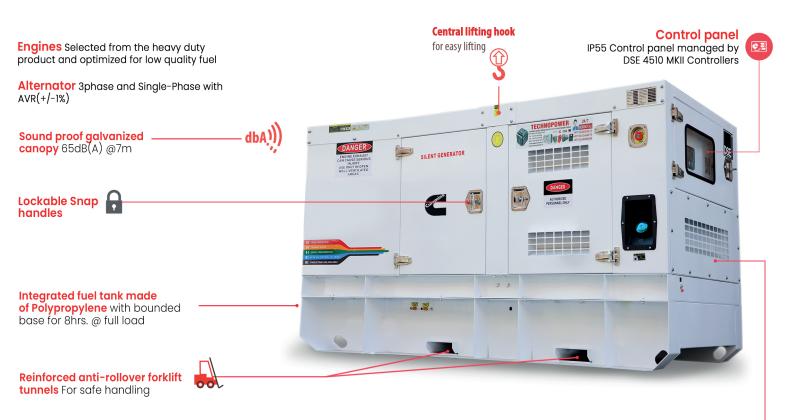




Document holderProtects documents



Diesel filling with key lock



Easy to service





Galvanized metal sheet to increase strength and durability



Exhaust terminal pipe with tilting cap rain over



Exhaust pipes
with exhaust heat wrap
for high-perfomance
and security



Emergency stop button It shuts down the generating set immediately



Anti-vibration pads attenuate the vibrations caused by the unit



Oil and Coolant Drain