

Cummins KTA50-GS8

Diesel Generator Set



PRIME POWER

1500 kVA / 1200 kW

STANDBY POWER

1675 kVA / 1340 kW

Specifications

Voltage / frequency	400/230 V, 50 Hz
Power factor	0,8
Rated current	2165 A
Model name	DPX-18821
Engine	Cummins KTA50-GS8
Alternator	Stamford S7L1D-D41
Control panel	DSE 8620MK2
Fuel type	Diesel
Dimensions	606 x 244 x 290 cm (20ft HQ)
Weight	18.900 kg

Ratings definitions

PRIME POWER PRP

Prime power available in variable load application in accordance with ISO 8528. A 10% overload capacity is available for a period of 1 hour within a 12-hour period of operation. Average power consumption should not exceed 80% PRP for each 24 h of work.

STANDBY POWER ESP

Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed; limited to 500 operating hours per year and 300 operating hours of continuous duty.

STANDARD REFERENCE CONDITIONS

Output ratings are presented at 25 °C air inlet temperature, barometric pressure 100 kPa and relative humidity 30%. This generating set is designed to operate at high ambient temperatures (up to 50 °C), humidity (up to 70%) and higher altitudes. Under specific site conditions, genset output power may derate.

Directives, Standards & Certifications

Category	References
EU Directives	2006/42/EC, 2014/30/EU
Product standards	EN 60204-1:2018, EN ISO 12100:2010, EN 55012:2007+A1:2009, EN ISO 8528-13:2016, EN 61000-6-1:2019, EN IEC 61000-6-4:2019
Manufacturer certifications	ISO 9001:2015 / GB/T 19001-2016, ISO 14001:2015 / GB/T 24001-2016, ISO 45001:2018 / GB/T 45001-2020



Technical Data

Engine

Model	KTA50-GS8
Brand	Cummins
Number of cylinders	16
Aspiration	Turbocharged and low temperature aftercooled
Fuel system	Direct Injection Cummins PT
Displacement	50.3 L
Bore x stroke	159 x 159 mm
Compression ratio	14.9:1
Rated speed	1500 r/min
Engine power	1340 kWm
Emission standard	Fuel Optimised (non-Stage V)
Oil capacity	204 L
Recommended oil	15W-40 API CI-4

Alternator

Model	S7L1D-D41
Alternator brand	Stamford
Phase	3
Voltage	400 V
Wiring type	6 wires
Power factor	0,8
Frequency	50 Hz
Prime power	1500 kVA
Excitation type	Separately excited by PMG
Voltage regulation	+/- 1 %
Protection grade	IP 23
Insulation class	H

Fuel consumption

100% load (Standby power)	345 L/h
100% load (Prime power)	309 L/h
75% load (Prime power)	238 L/h
50% load (Prime power)	167 L/h
25% load (Prime power)	88 L/h

Warranty

12 months from date of purchase or 1500 hours.

Features & Control

Standard features

Full synchronisation package

Internal box silencer

Set of RACOR pre-filters

Internal double wall fuel tank

4 Pole Schneider Motorized Circuit Breaker

3 Way valve system with external connections

Extended busbar for up to 10 cables

Internal lighting

Jacket water heater and Battery Charger

Controller

Model: DSE 8620MK2

7 configurable digital inputs

Built-in governor and AVR control

Base load (kW export) functionality

Mains (utility) de-coupling protection

Generator power (kW, kVA) monitoring

Overload (kW & kV Ar) protection

Emergency stop

Start failure

