	FICHA TECNICA		Enero /2020	
	GENERADOR ELECTRICO 400 KVA PRIME POWER / 440 KVA STANDBY POWER		Revisión N° 01	N° Página 1 de 1

Cummins QSNT-G3	Firman FG400K	Generator Model:	SDG400CCS
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50HZ	3-Phase	Power Factor Cosφ=0.8
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RATINGS	PRIME POWER (PRP)		STANDBY POWER(ESP)		
	SDG400CCS				
Voltage	kVA	kWe	kVA	kWe	Amps
380/220	400	320	440	352	669
Noise level @7m	80db				

DEFINITION OF RATINGS & REFERENCE CONDITIONS

Standby Power ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. No overload capability for this rating. Ratings are in accordance with ISO 8528, ISO 3046 and BS 5514. Average load factor: ≤ 80%. Operating hours/year: max. 500.

Prime Power ratings apply to installations where utility power is unavailable or unreliable. At varying loads, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO 8528, ISO 3046 and BS 5514. Average load factor: ≤ 70%. Operating hours/year: unlimited.

Continuous Power ratings apply to installations where the generator set serves as utility. At constant load, the number of generator set operating hours is unlimited. No overload capability for this rating. Ratings are in accordance with ISO 8528, ISO 3046 and BS 5514. Average load factor: ≤ 100%. Operating hours/year: unlimited.

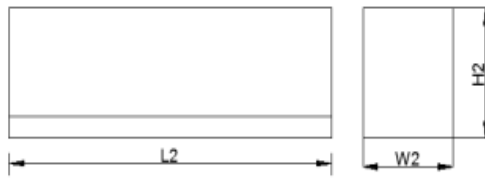
Power Partners generator sets are sized suitably for conditions of up to >25/≤40°C ambient temperature and >100m/≤1000m above sea level. Power ratings are subjected to changes should operating conditions vary.

Key Features:




- Efficient water cooled diesel engine.
- Radiator with pressure cap and drain point
- Fully guarded engine-driven fan
- Fully welded steel baseframe with lifting / jacking points
- Various fuel system options
- Heavy duty rubber anti-vibration mountings
- 24V starter batteries and connecting cables
- Separate engine-driven battery charging alternator
- Spin on oil and fuel filters and dry type air filter element
- Auto Start control with digital instrumentation
- Factory Test Certificate
- Operation & Maintenance Manual
- Wide range of optional extra features available

Overall Dimensions




(2) Silent type

Length (L2) = 4300mm
Width (W2) = 1500mm
Height (H2) = 2200mm
Weight=4600kg

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ENGINE&COOLING SYSTEM			Cummins QSNT-G3	
General Data	Engine Speed	r/min	1500	
	Compression Ratio		14:1	
	Cylinders/ Types		6 cyl/ In line	
	Aspiration		turbocharger and air charge cooled	
	Governor Type		Electronic	
	Bore/ Stroke	mm	140/152	
	Displacement	litres	14	
	Lubrication System		Pressure Splashed	
	Lube Oil Capacity (L)	litres	38,6	
	Lube Oil type		Above CF grade or SAE10W-30,15W-40	
	Fuel	100% Load	l/h	98
	Air Intake System		Turbocharged, Air/Air Cooling	
	Intake Air Flow	L/sec	549	
	Exhaust Gas Flow	L/sec	1240	
	Exhaust Temperature	°C	473	
	Max Back Pressure	kPa	10	
	Max Intake Restriction	kPa	6,2	
	Total Coolant Capacity-Engine only	litres	20,8	
	Oil Consumption	g/kwh	<=4	
	Thermostat	°C	82-94	
Max Water Temperature	°C	104		
Starting System	V	24V Electric		
Battery Capacity(V-Ah)	V	2x100AH		

ALTERNATOR			Firman FG400K
General Data	Model (may vary with voltage)		FG400K
	Operating Temperature	°C	40
	Coupling / No. of Bearings		Direct / Single Bearing
	Phase / Poles		3-Phase / 4-Pole
	Winding Pitch		"Y" Type connecting
	Power Factor		Cos Φ = 0.8
	Excitation		Brushless
	Insulation System		Class H
	Telephone interference		THF < 2 %
	Total Harmonic Distortion (No Load)		<1.5%
	Voltage Regulation		±1% using MX341
	Protection Grade		IP23
Alternator Efficiency at 0.8PF	100% Load		92,9%
	75% Load		93,4%
	50% Load		93,3%

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DEEPSEA DSE7320 AUTO MAINS FAILURE CONTROLLER

The DSE7320 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications. Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LEDs. The modules include USB, RS232 and RS485 ports.

KEY FEATURES:

- kW & kVAr protection
- Reverse power (kW & kVAr) protection
- LED and LCD alarm indication
- Power monitoring (kWh, kVAr, kVAh, kVAh)
- Automatic load transfer (DSE7320)
- Engine exerciser
- Unbalanced load protection
- Independent earth fault trip
- Balancing timer (DSE7310 only)
- USB connectivity
- Backed up real time clock
- Configuration Suite PC software



DSE8610 SYNCHRONIZING CONTROLLER

The DSE8610 MKII is an easy to use Synchronising Auto Start Control Module suitable for use in a multi-generator loadshare system, designed to synchronise up to 32 generators including electronic and non-electronic engines. The DSE8610 MKII monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.

KEY FEATURES:

- Sequential set start
- Manual voltage/frequency adjustment
- R.O.C.O.F. and vector shift protection
- Generator load demand
- Automatic hours run balancing
- Dead bus sensing
- Bus failure detection
- Direct governor and AVR control
- Volts and frequency matching
- kW and kvar load sharing
- Dead bus synchronising



GENERATING SET OPTIONS

