

FICHA TECNICA

GENERADOR ELECTRICO 500 KVA PRIME POWER / 550 KVA STANDBY POWER

Revisión N° 01

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Cummins KTA19-G3A	Firman FG500K	Gener Moc		SDG500CCS		
50 HZ	3-Phase	Pow Fact Cosco:	or			
RATINGS	PRIME PO	PRIME POWER (PRP)		STANDBY POWER(ESP)		
RATINGS	SDG500CCS					
Voltage	kVA	kWe	kVA	kWe	Amps	
380/220	500	400	550	440	836	

82db

DEFINITION OF RATINGS & REFERENCE CONDITIONS

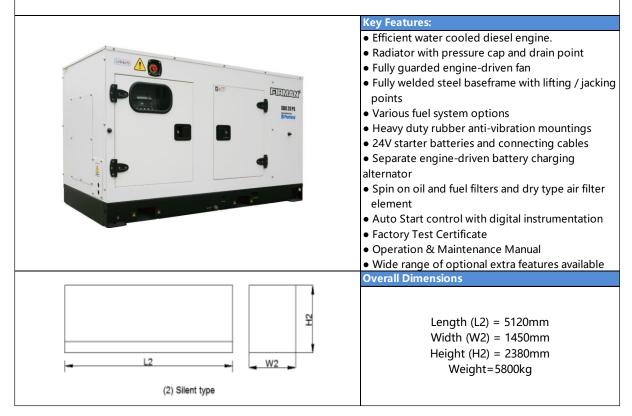
Noise level @7m

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.





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ENGIN	NGINE&COOLING SYSTEM			Cummins KTA19-G3A		
	Engine Speed Compression Ratio		r/min	1500		
				16:1		
	Cylinders/ Types			6 cyl/ In line		
	Aspiration			urbocharger and air charge coole		
	Cooling Mode			Closed Circulation Water Cooling		
	Governor Type			Electronic		
	Bore/Stroke		mm	159/159		
	Displacement		litres	19		
	Fuel	100% Load	L/hr	110		
		75% Load	L/hr	84		
	consumption	50% Load	L/hr	58		
General Data	Air Intake Syster	n		Turbocharged, Air/Air Cooling		
al D	Max. Standby Power at Rated RPM		KW	504		
Jera	Governor Type			Electronic		
Jer	Intake Air Flow		L/s	579		
Ŭ	Exhaust Gas Flow		L/s	1604		
	Exhaust Temper	ature	°C	557		
	Max Back Pressu	ire	kPa	10		
	Max Intake Rest	riction	kPa	6,23		
	Total Oil Capacity		litres	50		
	Oil Consumpation		g/KW.h	<=4		
	Coolant Capacity-Engine Only		litres	30,3		
	Thermostat		°C	82-93		
	Max Water Tem	perature	°C	104		
	Starting System		V	24V Electric		
	Battery Capacity(V-Ah)		V	2x200AH		
ALTERI	NATOR			Firman FG500K		
	Model (may vary with voltage)			FG500K		
	Operating Temperature Coupling / No. of Bearings Phase / Poles Winding Pitch		°C	40		
				Direct / Single Bearing		
				3-Phase / 4-Pole		
				Two Thirds		

	Operating Temperature		°C	40
ta	Coupling / No. of Bearings			Direct / Single Bearing
	Phase / Poles			3-Phase / 4-Pole
	Winding Pitch			Two Thirds
	Power Factor			$\cos \Phi = 0.8$
Data	Excitation			Brushless
General	Insulation System			Class H
	Telephone interference			THF < 2 %
Ŭ	Total Harmonic	Distortion (No Load)		<1.5%
	Voltage Regulat	on		±1% using MX341
	Sustained short	circuit		300% 10sec
	Alternator	100% Load		92,9%
	Efficiency at	75% Load		93,4%
	0.8PF	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 0 LED and LCD alarm indication • Power monitoring (kWh, kVAr, kVAh, kVArh) 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

GENERATI	NG SET OPTIONS
Engine:	
Alternator:	STAMFORD [®] meccalte Somer
Controller:	