

JUBILEE GENERATOR MODEL



500 kVA PRIME 400 kW 530 kVA STANDBY 424 kW



Technical Data

v17.02

Cummins	CGT (Stamford)	Phase	Туре	Model Number
KTA19G4	HCI544D	Three	Enclosed	JEG500CS

RATINGS	PRIME POWER (PRP)		STANDBY POWER (ESP)			
Voltage	kVA	kWe	Amps	kVA	kWe	Amps
380/220	500	400	760	530	424	805
400/230	550	440	750	590	472	773
415/240	500	400	695	530	424	767
440/254	500	400	655	530	424	694

Power Definition

Prime Power (PRP) is the power continuously available at variable load in lieu of mains power. An overload of 10% is permitted for one hour in every 12 hours of operation.

Standby Power (ESP) is the maximum output available for up to a maximum of 500 hours per year. No overload is permitted.

Standard Conditions: air inlet temperature of 40°C, barometric pressure of 100 kPA (110 m.a.s.l.) relative humidity of 30%. **Note:** All ratings data based on operation under ISO 8528-1 and ISO 3046-1. The above ratings may be subject to deration at different ambient temperatures or site altitude conditions.



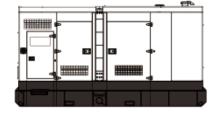
Scope of Supply

- Water cooled Cummins diesel engine at 1500rpm
- Single bearing CGT Stamford alternator
- Radiator with coolant expansion bottle
- Fully guarded engine-driven fan
- · Bunded baseframe fuel tank
- Heavy duty rubber anti-vibration mounts
- 24V starter batteries, tray and connecting cables
- Battery charger and Battery Isolator switch
- Spin on Oil and Fuel filters and dry type Air filter
- Sump Drain Kit
- Automatic Mains Failure controller with protections
- Main line circuit breaker
- Emergency Stop buttons
- Sound attenuated canopy with centre lift / fork slots
- Industrial silencer with rain flap
- Factory Test Certificate and Pre-delivery service
- Operation Manual

Typical Enclosed Generator Sound Pressure Level in Free Field Conditions				
dB(A) @ 1m	826	dB(A) @ 7m	73.5	

Dimensions and Weight				
Length Width Height	(L) 4512 mm (W) 1500 mm (H) 2560 mm			
Dry Weight	6208 kg			

All specifications are subject to change without prior notice





1300 JUB NRG JubileeEnergy.com



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ENGINE & COOLING TECHNICAL DATA CUMMINS KTA19G4

	DESCRIPTION	VALUE	UNITS
	Engine Speed	1500	rpm
GENERAL	Number of Cylinders	6	Inline
	Aspiration	Turbocharged & Aftercooled	
	Bore / Stroke	159 / 159	mm
9	Displacement	19	litres
	Governor	Electronic	-
	Fuel Consumption at 110% Power	121	litres/hr
	Fuel Consumption at 100% Power	107	litres/hr
FUEL	Fuel Consumption at 75% Power	82	litres/hr
FU	Fuel Consumption at 50% Power	57	litres/hr
	Fuel Consumption at 25% Power	30	litres/hr
	Standard Fuel Tank Capacity	1016	litres
	Maximum Air Intake Restriction (Clean Filter)	2.48	kPa
AIR	Maximum Air Intake Restriction (Contaminated Filter)	6.21	kPa
	Engine Air Intake Flow	486	litres/sec
H-	Exhaust Gas Flow	1345	litres/sec
۲US	Exhaust Gas Temperature	524	°C
EXHAUST	Maximum Exhaust Back Pressure	10	kPa
Ш	Recommended Exhaust Pipe Diameter	N/A	mm
	Maximum Restriction to Cooling Air Flow	N/A	kPa
NG	Maximum Coolant Temperature	100	°C
COOLING	Coolant Flow	N/A	litres/sec
00	Coolant Capacity	30	litres
	Thermostat Adjusting Temperature Range	82 - 93	°C
OIL	Total Oil Capacity	50	litres
	Typical Oil Pressure at Rated Speed	345-483	kPa
/	Maximum Oil Temperature in Oil Pan	121	°C
()	Electrical System Voltage	24	V
ELEC	Battery Type	SLA	-
H	Battery Capacity CCA	900	А

ALTERNATOR TECHNICAL DATA CGT STAMFORD HCI544D

	DESCRIPTION	VALUE		
	Operating Temperature	40 °C		
	Coupling	Direct		
Number of Bearings 묏 Phase / Poles	Number of Bearings	Single		
	Phase / Poles	3 Phase / 4 Pole / Winding 311		
GENERAI	Power Factor	Cos φ = 0.8		
GEI	Excitation	Self Excited		
	Insulation System	Class H		
	AVR Type	SX440		
	Voltage Regulation	± 1.0%		



JUBILEE CONTROL SYSTEM

DSE7420 AMF

The DSE7420 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas generator set applications.

Monitoring an extensive number of engine parameters, the module displays warnings, shutdowns and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC, audible alarm and via email alerts (utilising optional DSE890 3G Gateway).

The DSE7420 can monitor the mains (utility) supply and includes USB, RS232, RS485 & Ethernet ports as well as dedicated terminals for system expansion.

The module is compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offers a comprehensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet the most demanding industry requirements.



OPTIONAL CONTROL SYSTEMS

AMF/ SYNCHRONISING / LOAD SHARE / SET TO SET **DSE8610** The DSE8610 is an easy to use multi-generator loadshare system, designed to synchronise up to 32 generators including electronic and non-electronic engines. The DSE8610 monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition. **DSE8620** AMF/ SYNCHRONISING / LOAD SHARE / SET TO MAINS The DSE8620 is an Auto Mains (Utility) Failure Control Module suitable for paralleling single gensets (diesel or gas) with the mains (utility) supply. The module will automatically start the generator on detection of a mains failure, and will control the switchover from and back to the mains (utility) supply, offering an uninterrupted return. The modules synchronising functions include automatic synchronising with built-in synchroscope and closing onto dead bus. Direct and flexible outputs from the module are provided to allow connection to the most commonly used speed governors and automatic voltage regulators (AVRs). **DSE890 3G GATEWAY** The DSEWebNet Gateway is used in conjunction with supported DSE controllers to provide monitoring and communications data via the DSEWebNet® advanced communications system. The DSEWebNet Gateway communicates to the connected DSE controller(s), monitoring the instrumentation and operating state. When this data changes, the new data is logged in the internal memory. At regular intervals the logged data is transmitted to the DSE host server. The DSE host server is then integrated into the DSEWebNet® which can be accessed via an internet connected device and web browser to allow remote monitoring and control of multiple DSE controllers around the globe. GSM, GPS and GSM/GPS antenna's are available as accessories **DSE330** BASIC AUTO TRANSFER SWITCH CONTROL MODULE The DSE330 is an Automatic Transfer Switch Controller. The module will monitor the voltage and frequency of the incoming S1 AC supply and in the event of failure will issue a start command to \$2. Once S2 is available and producing an output within limits, the DSE330 will control the transfer device and switch the load from S1 to S2. Please talk to us about our Advanced ATS range suitable for Modbus, BMS and SCADA.

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