



Diesel Generator Datasheet

CS RANGE

JEG180CS: 180 / 194 kVA

Technical Data

JEG180CS

Engine	Model	Phase	Type	Jubilee Model
Cummins	6CTA8.3G2	Three	Enclosed	JEG180CS

RATINGS	PRIME POWER (PRP)			STANDBY POWER (ESP)		
Voltage	kVA	kWe	Amps	kVA	kWe	Amps
380	180	144	273	198	158	301
400	180	144	260	198	158	286
415	180	144	250	198	158	275
440	180	144	236	198	158	260

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

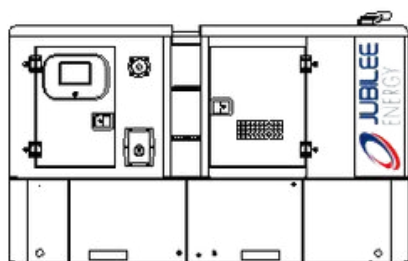
- Water cooled Cummins diesel engine
- Single bearing brushless alternator
- Radiator with coolant expansion bottle
- Fully guarded engine-driven fan
- Heavy Duty Anti-Vibration Mounts
- Starter Battery
- Battery Trays and connecting cables
- Battery Charger
- Battery Isolator Switch
- Main Line Circuit Breaker
- Automatic Mains Failure controller with protections
- Twin Skinned Fuel Tank
- Sound attenuated enclosure / fork pockets
- Spin on Oil and Fuel Filters and Dry Type Air Filters
- Emergency Stop buttons
- Pre-delivery service
- Industrial silencer with rain flap
- Full Load Test
- Operation Manual
- Factory Test Certificate



Images are for illustrative purposes only and may vary.

Typical Enclosed Generator Sound Pressure Level in Free Field Conditions

dB(A) @ 1m	74.9	dB(A) @ 7m	68.9
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Weights and Dimensions

Length	(L)	3800 mm
Width	(W)	1400 mm
Height	(H)	2010 mm
Dry Weight	3100 kg	

Engine & Cooling Technical Data

JEG180CS

DESCRIPTION		VALUE	UNITS
GENERAL	Engine Speed	1500	rpm
	Number of Cylinders	4	Inline
	Aspiration	Turbocharged / Air-to-Air Aftercooled	
	Bore / Stroke	102 / 120	mm
	Displacement	8.3	litres
	Governor	Electronic	-
FUEL	Fuel Consumption at 110% Power	45	litres/hr
	Fuel Consumption at 100% Power	40	litres/hr
	Fuel Consumption at 75% Power	30	litres/hr
	Fuel Consumption at 50% Power	20	litres/hr
	Fuel Consumption at 25% Power	10	litres/hr
	Standard Fuel Tank Capacity	1000	litres
AIR	Max Air Intake Restriction (Clean Filter)	2.48	kPa
	Max Air Intake Restriction (Contaminated Filter)	6.21	kPa
	Engine Air Intake Flow	200	litres/sec
EXHAUST	Exhaust Gas Flow	519	litres/sec
	Exhaust Gas Temperature	536	°C
	Maximum Exhaust Back Pressure	10.11	kPa
	Recommended Exhaust Pipe Diameter	100	mm
COOLING	Maximum Restriction to Cooling Air Flow	28	kPa
	Maximum Coolant Temperature	104	°C
	Coolant Flow	2.0	litres/sec
	Coolant Capacity	25	litres
	Thermostat Adjusting Temperature Range	82 - 95	°C
OIL	Total Oil Capacity	23.8	litres
	Typical Oil Pressure at Rated Speed	207	kPa
	Maximum Oil Temperature in Oil Pan	121	°C
ELEC	Electrical System Voltage	24	V
	Battery Type	SLA	-
	Battery Capacity CCA	475	A

Alternator Technical Data

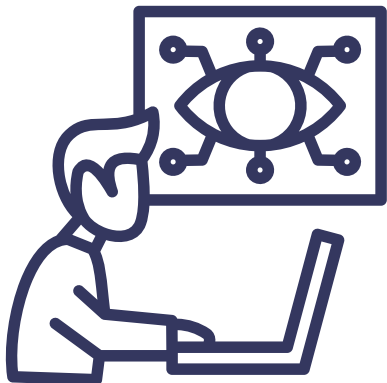
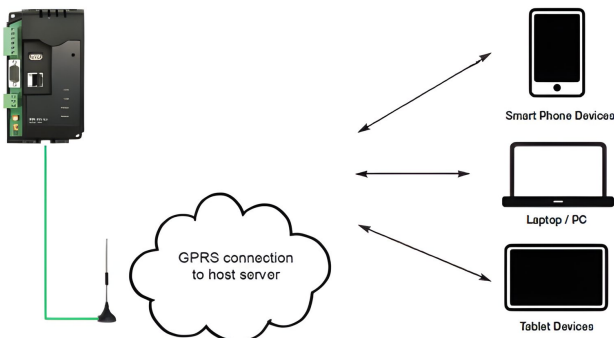
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DESCRIPTION		VALUE
GENERAL	Operating Temperature	40 °C
	Coupling	Direct
	Number of Bearings	Single
	Phase / Poles	3 Phase / 4 Pole / Winding 311
	Power Factor	Cos ϕ = 0.8
	Excitation	Self Excited
	Insulation System	Class H
	AVR Type	SX460
	Voltage Regulation	± 1%

Controller Options

JEG180CS

DSE4510	AUTO START CONTROL MODULE
	The DSE4510 is an Auto Start Control Module suitable for a wide variety of single genset applications. Whilst maintaining functions included within higher end controllers, such as generator or load power monitoring, this compact controller provides the user with the ultimate size to feature ratio. Monitoring engine speed, oil pressure, coolant temperature, frequency, voltage, current, power and fuel level, the modules will give comprehensive engine and alternator protection.
DSE6020 MKII	AUTO MAINS FAILURE CONTROL MODULE
	The DSE6120 MKIII is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, genset applications. Monitoring an extensive number of engine parameters, the module will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs and remote PC.
<i>DSE7420 MKII</i>	<i>AUTO MAINS FAILURE CONTROL MODULE (STANDARD FITMENT)</i>
	The DSE7420 MKII 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, illuminated LEDs and remote PC. The DSE7420 MKII will also monitor the mains (utility) supply. The module include USB, RS232, RS485 and Ethernet ports as well as dedicated DSENet® terminals for system expansion.
DSE8610	AMF/ SYNCHRONISING / LOAD SHARE / SET TO SET
	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 MKII	AMF/ SYNCHRONISING / LOAD SHARE / SET TO MAINS
	The DSE8620 MKII represents the latest in complex load sharing & synchronising control technology. Designed to synchronise a single genset with a mains (utility) supply, the DSE8620 MKII control module is packed with multiple features and benefits that are unrivalled across the generator control industry.

Remote Monitoring	Description
 	The DSEWebNet Gateway Modules are used in conjunction with supported DSE controllers to provide monitoring and communications data via the DSEWebNet® advanced communications system. Gateway modules available are the DSE890 (3G/GSM/GPS/Ethernet), DSE891 (Ethernet only) and DSE892 (SNMP). The 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 antennas are available as accessories.
	

Automatic Transfer Switch	Description
	Jubilee Transfer Switches combine reliability and flexibility in a small, economical package for transferring loads between a utility and a generator set, or between two generators. Jubilee Transfer Switches and the control mechanisms are mounted in a key-locking enclosure. Enclosures meet IEC 60947-6-1 standard. Our 63-630 Amp switches are front-connected. The microprocessor control monitors the utility and the standby generator power. When utility power fails, or is unsatisfactory, the control starts the generator. When stable utility power returns, the switch automatically transfers the load back to the utility. A variety of Transfer Switches are available to suit multiple applications.

All specifications are subject to change without prior notice

V26.04