

ATECHI POWER DIESEL GENERATING SET ACS500(50HZ)

PRIME POWER	400KW / 500KVA
STANDBY POWER	440KW / 550KVA



Generator Ratings

Voltage	HZ	Phase	P.F (COS ϕ)	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
440/254	50	3	0.8	722	440/550	400/500
415/240	50	3	0.8	765	440/550	400/500
400/230	50	3	0.8	794	440/550	400/500
380/220	50	3	0.8	836	440/550	400/500

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (equiv ISO8528) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

General Specification

● PERFORMANCE GUARANTEED

Standard series and Weather and Sound Proof Canopy series are designed, Manufactured and tested under strict quality control procedure, to ensure top performance at all times.

● PACKAGED ACCESSORIES

Generator set units are packaged with anti-vibration system, advanced control panel, starting system, synchronizing panel, base fuel tank and other accessories which make ready for power station.

● BASE SKID

Standard built-in anti-vibration system - bonded rubber units fitted as standard which eliminate the need for rubber mats or spring mountings.

● COOLING SYSTEM

Set-mount radiator for ambient temperature of 40°C standard (50°C option); Remote radiator with fan motor or heat exchanger optional.

Engine Specification

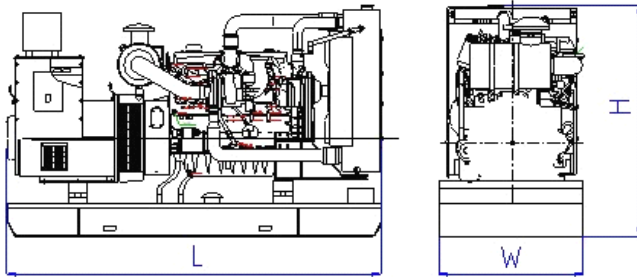
CUMMINS DIESEL ENGINE

Manufacturer / Model:	CCEC Cummins KTA19-G3A, 4-cycle
Air Intake System:	Turbo, Water/Air cooling
Fuel System:	PT type fuel pump, EFC
Cylinder Arrangement:	6 in lin
Displacement:	19L
Bore and Stroke:	159*159 (mm)
Compression Ratio:	13.9:1
Rated RPM:	1500rpm
Max. Standby Power at Rated RPM:	504KW/675HP
Governor Type:	Electronic
Exhaust Gas Flow:	1604L/s
Exhaust Temperature:	557°C
Max Back Pressure:	10kPa
Max Intake Restriction:	6.23kPa
Burning Capacity:	579L/s
Air Flow:	9800L/s
Fuel consumption 100%Prime Load:	101.9L/H
Total Oil Capacity:	50L
Oil Consumption:	≤0.24L/h
Engine Oil Tank Capacity:	38L
Total Coolant Capacity:	106L
Thermostat:	82-94°C
Max Water Temperature:	104°C

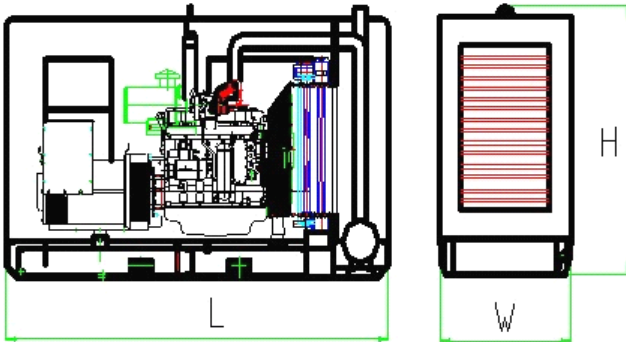
Alternator Specification

Number of Phase:	3
Connecting Type:	3 Phase and 4 Wires, "Y" type connecting
Number of Bearing:	1
Power Factor:	0.8
Protection Grade:	IP23
Altitude:	≤1000m
Exciter Type:	Brushless, self-exciting
Insulation Class, Temperature Rise:	H/H
Telephone Influence Factor (TIF):	<50
THF:	<2%
Voltage Regulation, Steady State:	±1%
Alternator Capacity:	500KVA
Alternator Efficiencies:	93.8%
Air Cooling Flow:	1.035m ³ /s

Dimension&Weight



Open Type:ACS500-H5
 Dimension(mm):
 3400*1360*2050(L*W*H)
 Weight(KG):4280



Soundproof Type:ACS500S-H5
 Dimension(mm):
 4630*1660*2250(L*W*H)
 Weight(KG):5700

Control System



DSE3110 can be utilised as a Manual or Auto Start Module for single gen-set applications and forms part of DSE's next generation of control modules. The module has been designed to work with electronic and non electronic engines providing advanced engine monitoring and protection features.

The DSE3110 includes a backlit LCD display which clearly show the status of the engine at all times. The module monitors engine speed, frequency, voltage and run hours and also displays warning and shutdown status of the engine.

The module includes six digital inputs and four outputs. Two of the outputs are configurable. The module can either be programmed using the front panel or by using the DSE Configuration Suite PC software.

The module is available in two variants: Magnetic Pick-up and Canbus.

CAN–For use with CAN engines only. Optional frequency(Hz)sensing from main AC alternator for genset applications.

MPU–For use with traditional (non-CAN) engines only. Optional frequency (Hz) sensing from main AC alternator for gen-set applications. Optional Magnetic Pickup speed sensing.



The DSE7220 (Optional) is an Auto Mains (Utility) Failure Control Module.

The DSE7220 includes the additional capability of being able to monitor a mains (utility) supply. The module has been designed to start and stop diesel and gas generating sets that include electronic and non-electronic engines.