



#### **Output Ratings**

	Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standb	y Power
	model	(V)				KVA	KW	KVA	KW
	AC688	230/400	50	3	0.8	625	500	688	550
1	•220/380V, 240/415V, 254/440V is available								

#### **Dimension & weight**

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AC688	Open	4047*1608*1942	5760
AC000	Silent	5000*1983*2371	7950

#### Other datas

Circuit Breaker capacity (A)	1000
Battery Brand	Varta
Daily Fuel Tank Capacity (L)	1120

#### Notes:

• Standby power: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046.

• Prime power: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528, ISO 3046.

•Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.

#### Warranty

•The standard warranty period: One year after ex-work or 1000 operation hours whichever come first shall apply.

•Consumable parts(air filter, fuel filter, lube oil filter), All failures and damages due to the mal-operation, neglect of maintenance and operation not according to the operation manual, are out of the scope of warranty.

# DIESEL GENERATOR DATA SHEET

## **Power By Cummins**

Model: AC688



## **Standard Configuration**

• Engine include air, fuel, oil filters,

- starting motor and charge alternator etc.
- Brushless AC alternator, single bearing,
- flange connection, with AVR
- Radiator with engine driven fan mounted on skid
- Channel steel base frame, <550KW base 8hrs mounted fuel tank as standard
- Anti-vibration pads between
- engine/alternator and base frame
- Circuit breaker 3P as standard, 4P optional
- Auto control panel
- Start battery with connecting cable and floating battery charger
- Flexbile pipe, exhaust elbow, industrial silencer etc.
- Standard tools kit

• Electric drawing, test report ,operation &

maintaince manual of generator etc. •Optional soundproof/Container canopy, ATS cabinet, remote control panel, synchronization panel, movable trailers, heat exchanger, remote horizontal water tank system, external fuel tank, etc



Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

#### Xiamen AI Power Technology Co., Ltd.

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#### GENERAL ENGINE DATA

Engine manufacturer		CUMMINS INDIA LIMITED		
Engine brand		Cummins		
Engine model		VTA28-G5		
Engine spe	ed (rpm)	1500		
Net engine	output(kW)			
	Standby power rating	615		
	Prime power rating	560		
Туре		4-Cycle, 12V Cylinder		
Aspiration		Turbocharged and aftercooled		
Borer * Stroke (mm)		140 * 152		
Displacment (litre)		28		
Battery Charging Alternator		35A		
Starting Vo	oltage	24 volt, negative ground		
Fuel Filter		Dual spin-on fuel filters		
Lube Oil Filter Type(s)		Spin on full flow filter		
Lube Oil Capacity (l)		83		
Flywheel Dimensions		SAE 0		

### **COOLING SYSTEM**

Cooling System Design	Aftercooled
Fan drive for radiator	0.63:1 drive ratio
Coolant Capacity (L)	80

#### FUEL SYSTEM

Type Injection System		Cummins PT <sup>™</sup> self-adjusting system		
Fuel Consumption	Consumption (litre/hour)			
	110% output power	160		
	100% output power	140		
	75% output power	105		
	50% output power	75		
	25% output power	41		

## ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	HCI544FS
Control system	Self excited
A.V.R.	Included
Voltage regulation	±1%
Insulation system	Class H
Protection	IP23
Rated power factor	0.8
Winding pitch	Two thirds
Winding leads	12
Frequency (Hz)	50
Voltage (V)	400
Phase	3
Output ratings (kVA/kW)	
Cont.H-40°C	625/500
Standby-27°C	688/550
THF	<2%
TIF	<50
Max. overspeed (Rev/Min)	2250
Bearing	Single

# **CONTROL SYSTEM**



The **DEEPSEA DSE 6120** is an Auto Mains (Utility) Failure Control Module developed to provide a wide range of operating and monitoring features for single diesel and gas gen-sets.

DSE7320, ComAp AMF25 etc for option.

#### **Protection function:**

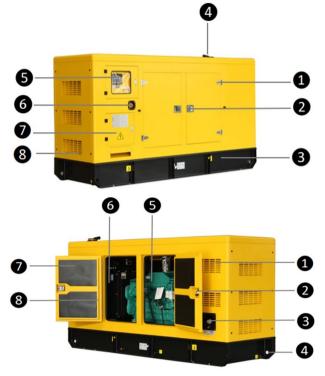
- •Low oil Pressure
- •High water temperature
- •High voltage and low voltage
- •Over current
- •Overspeed
- •Volt adjuster and frequency adjuster.
- Emergency stop
- •Low fuel alarm and shutdown
- •Low coolant alarm and shutdown

## **Key Functions:**

- Multiple display languages
- Data logging facility
- Fully configurable via PC using USB communication
- Front panel configuration
- 3 phase generator sensing
- 3 phase mains (utility) sensing
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Accumulated power monitoring (kW h, kVA h, kVAr h)
- · Generator/load current monitoring and protection
- Generator overload protection (kW)
- Breaker control via fascia buttons
- Fuel and start outputs, configurable when using CAN
- 4 configurable DC outputs
- 4 configurable analogue/digital inputs
- Support for 0 to10 V & 4 to 20 mA oil pressure sensors
- 6 configurable digital inputs
- Configurable staged loading outputs
- CAN, MPU and alternator speed sensing in one variant
- 3 engine maintenance alarms
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel pump control
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown protection.
- LCD and LED alarm indication

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### **SILENT CANOPY**



- Durable stainless steel hinges
   Durable stainless steel hinges
   Strong base fuel tank
   High performance exhaust silencer
   Deepsea control system
   Emergency stop
   High quality 3P Circuit breaker and terminal output
- 8)Fresh air inlet cooling system
- ①air inlet cooling system
  ②stainless door lock
  ③fuel cap lock
  ④tow holes
  ⑤engine
  ⑥radiator
  ⑦insluation and soundproof materials
- (8) maintenance door

#### **Performance Features:**

- More than 2mm thick steel to make the canopy.
- High quality paint materials and strict powder paint processing.
- large-scale impedance combined type silencer effectively reduce noise of the generator.
- Stainless steel door locks and hinges and 180° revolvable and disassemble door for easy maintenance.
- High quality soundproof and insulation materials could efficiently reduce noise.
- Transparent viewing window make the control panel clear at a glance.
- Lifting earis mounted in the base frame for easy pull.
- From 10kva to 700kva we use normal silent canopy, more than 700kva we are using containerized canopy.
- ISO standard 20', 40' and 40HQ sea container canopy for options.
- Standard sea container canopy is easier for shipping.

## AI POWER COMPANY SHOW



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