



DIESEL GENERATOR DATA SHEET

Power By SDEC

Model:ASC550



Output Ratings

Generator set model	Voltage	Hz	Phase	P.F.	Prime Power		Standby Power	
	(V)				KVA	KW	KVA	KW
ASC550	400/230	50	3	0.8	500	400	550	440

•220/380V,240/415V,254/440V is available

Dimension & weight

Generator set model	Type	L*W*H(mm)	Weight(kg)
ASC550	Open	3200*1150*2000	2600
	Silent	3900*1700*2200	4300

Other datas

Circuit Breaker capacity(A)	800
Battery Brand	Varta
Base Fuel Tank Capacity(L)	800

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.

Standard Configuration

- Engine include air,fuel,oil filters, starting motor and charge alternator etc.
- Brushless AC alternator,single bearing, flange connection, w/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 w/ connecting cable and floating battery charger
- Flexible pipe, exhaust elbow, industrial silencer etc.
- Standard tools kit
- Electric drawing, test report ,operation & maintenance 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.

Engine

GENERAL ENGINE DATA

Engine manufacture	Shanghai Diesel Engine Co., Ltd. (SDEC)	
Engine brand	SDEC	
Engine model	6ETAA12.8-G310	
Engine speed (rpm)	1500	
Engine output(kWm)		
	Standby Power	495
	Prime Power	450
Engine Type	4-Cycle, In-line, 6-Cylinder Diesel, water cooled, Turbo charged	
Bore x Stroke (mm)	130*161	
Displacement (litre)	12.8L	
Compression Ratio	16:1	

FUEL SYSTEM

Injection pump	Longkou in-line “P” type	
Governor	Electronic	
Fuel Consumption (litre/hour)		
	25% load	31.7
	50% load	55.3
	75% load	79.7
	100% load	108.5

MECHANISM

Type	Over head valve	
Number of valve	Intake 2, exhaust 2 per cylinder	
Valve lashes at cold	Intake 0.4mm, Exhaust 0.65mm	

ENGINEERING DATA

Heat rejection to coolant	51.5kcal/sec	
Heat rejection to CAC	30.3m3/min	
Exhaust system	10kPa max.	
Exhaust gas temp.	600	

COOLING SYSTEM

Cooling method	Fresh water forced circulation	
Coolant capacity	23.2L	
Thermostat		
	Opening temp. (°C)	85
	Full open temp.(°C)	95
Thermostat Type	Wax-pellet type	

LUBRICATION SYSTEM

Lub. Method	Fully forced pressure feed type	
Oil pan capacity	Max. 41 liters , Min. 33 liters	
Oil pump	Gear type driven by crankshaft	
Oil filter	Full flow, cartridge type	
Lub. Oil	Refer to Operation Manual	

ELECTRICAL SYSTE

Battery Charging Alternator	28V×55A alternator	
Starting motor	24V×7.5kW	
Battery Voltage	24V	
Battery Capacity	180 Ah (recommended)	

ALTERNATOR

Alternator manufacturer	Leroy-somer Electro-technique (Fuzhou) Company Ltd.
Alternator brand	Leroy-somer
Alternator model	TAL-A47-C
Control system	SHUNT
A.V.R.	Included
Voltage regulation	±1.0%
Insulation system	Class H
Protection	IP23
Rated power factor	0.8
Winding pitch	Two thirds
Winding leads	6
Frequency (Hz)	50
Voltage (V)	400
Phase	3
Output ratings (kVA/kW)	
-----Cont.H-40°C	500/400
-----Standby-27°C	550/440
THF	<2%
TIF	<50
Max. overspeed (Rev/Min)	2250
Bearing	Single

Control System

Ai Power adopts ComAp AMF9 or Deepsea DSE6120 as the standard controller for single gen-set applications.. AMF25 or DSE7320 for option.



ComAP AMF9



Deepsea DSE6120

Features

- Single-genset controller for stand-by and prime power applications
- 3 phase AMF function
- 3 phase generator protections
 - over/under frequency, over/under voltage, over current
- True RMS voltage measurement
- True RMS current measurement
- Event and performance log
 - Gen-set ext alarm, Engine hours history, ECU Text alarm, Test Run scheduler
- Power Measurements
- User interface
- Inputs and outputs
 - Configurable analogue/digital, binary
- Direct communication with EFI engines
- Engine Protections
 - Oil pressure, Coolant temperature, Fuel level
- Breaker control via fasica buttons
- Fuel Pump control
- Optional Active Calls(SMS alarm/event)
- Miscellaneous features
- Communication interface
 - USB plug-in, Optional RS232, RS485, GSM
- Multiple display languages
- Start on low battery
- Real-time clock
- Zero power mode
- LCD and LED alarm indication
- Configuration Suite PC Software.
- IP65 protection class
- Remote monitoring

Protection function:

- Low oil Pressure
- High water temperature
- High voltage and low voltage
- Over current
- Over speed
- Emergency stop
- Low fuel alarm and shutdown
- Fail to start

Open and Silent Generator

Ai Power silent generator is widely used in residential area which require quiet environment, its reasonable and elegant design not only reduce the noise to applicable to the environment protection, but also a good view on the road. Our 10kva to 650kva generator adopts normal silent canopy, from 650kva to 1500kva adopts 20ft container canopy, the higher power adopts 40HQ container canopy.



Open Generator Standard Supply

The Open Type Generator Includes:

1. Automatic control panel.
2. 3 phases or single phase brushless alternator.
3. anti-vibration pad.
4. different brand engine.
5. water cooled radiator.
6. battery protection switch.
7. sealed lead acid free maintenance battery.
8. trickle battery charger.
9. 3P Chinese brand Circuit breaker.
10. Exhaust silencer, elbow and flange.



Silent Generator Standard Supply

Silent Generator Standard Supply:

1. AMF automatic control system
2. Fresh air inlet cooling system
3. Emergency stop
4. 3P Chinese brand Circuit Breaker
5. Cable output placement
6. 8hrs strong base fuel tank
7. stainless steel hinges
8. maintenance door



Silent Canopy Features

Silent Canopy Features:

1. more than 2mm thick steel canopy.
2. High quality paint and strict powder paint processing.
3. large-scale impedance combined type silencer.
4. Stainless steel door locks and hinges.
5. High quality fireproof, soundproof and insulation materials.
6. Clear monitoring control panel and outer emergency stop.
7. Lifting ear is mounted in the base frame for easy pull.
8. Fuel and lub oil drainout is all connected to the canopy.
9. Fuel refill opening is on the outer canopy.

