



#### Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standb	y Power
model	(V)				KVA	KW	KVA	KW
ASC402	400/230	50	3	0.8	365	292	402	321
•220/380V 240/415V 254/440V is available								

#### **Dimension & weight**

Generator set model	Туре	L*W*H(mm)	Weight(kg)
ASC402	Open	3200*1150*2000	2850
ASC402			

#### Other datas

Circuit Breaker capacity(A)	630
Battery Brand	Varta
Base Fuel Tank Capacity(L)	575

## 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 SDEC**

Model:ASC402



## **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

• 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.

## GENERAL ENGINE DATA

Engine manufacture	Shanghai Diesel Engine Co., Ltd. (SDEC)
Engine brand	SDEC
Engine model	SC12E500D3
Engine speed (rpm)	1500
Engine output(kWm)	
Standby Power	373
Prime Power	339
Engine Type	4-Cycle, In-line, 6-Cylinder Diesel, water cooled, Turbo charged
Bore x Stroke (mm)	128*153
Displacment (litre)	11.8L
Compression Ratio	17:1

## FUEL SYSTEM

Injection pump		Longkou in-line "P" type
Governor		Electric type
Fuel Consumption	on (litre/hour)	
	25% load	19.9
	50% load	36.4
	75% load	53.7
	100% load	71.9

#### MECHANISM

Туре	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	34.6kcal/sec
Air flow	19.3m3/min
Exhaust gas flow	43.5m3/min
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×70A alternator
Starting motor	24V×5.5kW
Battery Voltage	24V
Battery Capacity	180 Ah (recommended)

## ALTERNATOR

Alternator manufacturer	Leroy-somer Electro-technique (Fuzhou) Company Ltd.	
Alternator brand	Leroysomer	
Alternator model	TAL-A46-H	
Control system	SHUNT	
A.V.R.	Included	
Voltage regulation	$\pm 1.0\%$	
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	365/292	
Standby-27°C	400/320	
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.





#### Deepsea DSE6120

#### **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

## 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

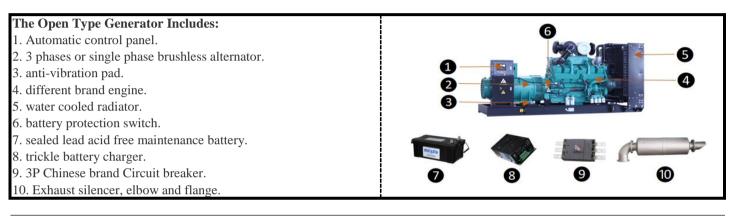
- •Power Measurements
- •User interface
- •Inputs and outputs
- Configurable analogue/digital, binary
- •Direct communication with EFI engines
- •Engine Protections
- Oil pressure, Coolant temperature, Fuel level
- •Breaker control via fasica buttons
- •Fuel Pump control
- •Optional Active Calls(SMS 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

## **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**



#### Silent Generator Standard Supply

#### Silent Generator Standard Supply:

- 1. AMF automatic control system
- 2. Fresh air inlet cooling system
- 3. Emerency stop
- 4. 3P Chinese brand Cricuit Breaker
- 5. Cable output placement
- 6. 8hrs strong base fuel tank
- 7. stainless steel hings
- 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.

