







Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standb	y Power
model	(V)				KVA	KW	KVA	KW
AP440	127/220	60	3	0.8	400	320	440	352

^{•220/380}V, 254/440V, 277/480V, is avaliable

Dimension & weight

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AP440	Open	3000*1140*2120	3400
AF440	Silent	3700*1500*2230	4200

Other datas

Circuit Breaker capacity (A)	1250
Battery brand	Varta
Base Fuel Tank Capacity(L)	648

Notes:

- \bullet 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.



Power By Perkins

Model:AP440



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.

Engine

CENTED	A T	TONIC	TATE	DA	T 4
GENER	\mathbf{AL}	LING	TUNE	DA	IΑ

Engine manufacture	Perkins Engines Compa	any Limited	
Engine brand	Perkins		
Engine model	2206C-E13TAG2		
Engine speed (rpm)	1800		
	Prime power	Standby power	
Gross engine power (kWb)	373	407	
Typical Genset electrical output 0.8pf 25°C (100 kPa) (KW)	320	350	
Cylinders	6-cylinder, vertical	in line	
Cycle	4 stroke, comression ignition		
Induction system	Turbocharged, air to air charge cooling		
ICombustion system	Direcct injecti	on	
Compression ratio	16.3:1		
Bore * Stroke (mm)	137*157		
Cubic capacity (Litre)	12.5		
	·		
FUEL SYSTEM			
Injection system	MEUI	·	
Governor type	electronic		

Injection system		MEUI
Governor type		electronic
Fuel Consumption (litre/hour)		
	Standby	87
	Prime+10%	88
	Prime	81
	75% output power	62
	50% output power	43

COOLING SYSTEM

Total system capacity(litre)	51.4
Max. top tank temperature (°C)	104
Thermostat operating range (°C)	87-98

LUBRICATION SYSTEM

Total system capacity (liter)	40
Maximum sump capacity (liter)	38
Minimum sump capacity (liter)	32.5
Oil temp. Max. continuous operation (°C)	113
Oil pressure at bearings(kPa)	310

INDUCTION SYSTEM

I DOCTON SISILM		
Maximum air intake restriction of engine (kPa)		
Clean filter	2.5	
Dirty filter	6.4	
Combustion air flow(standby/prime power) (m ³ /min)	29/27.4	

EXHAUST SYSTEM

Back pressure for total system (kPa)	10
Exhaust gas temp. after turbo(standby/prime power)(°C)	660/630
Exhaust gas flow (standby/prime power) (m ³ /min)	73.5/67.5

ELECTRICAL SYSTEM

Alternator voltage (volts)	24
Alternator output (amps)	70
Stater motor type (volts)	24
Starter motor power (kw)	7.8

ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	S4L1S-F4
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)	60
Voltage (V)	220
Phase	3
Output ratings (kVA/kW)	
Cont.H-40°C	420/336
Standby-27°C	455/364
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

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

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. 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.



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