



Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standb	y Power
model	(V)				KVA	KW	KVA	KW
AP1650	220/127	60	3	0.8	1500	1200	1650	1320
•220/380V 240/415V 254/440V is available								

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

Dimension & weight

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AP1650	Open	5100*2100*2400	10800
AF 1050	Silent	5800*2430*2650	12750

Other datas

Circuit Breaker capacity (A)	5000
Battery brand	Varta
Base Fuel Tank Capacity(L)	N/A

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 Perkins

Model:AP1650

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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	Perkins Engines Company Limited			
Engine brand	Perkins			
Engine model	4012-46TAG2A			
Engine speed (rpm) 1800		1800		
	Baseload power	Prime power	Standby power	
Gross engine power (kWb)	1069	1331	1459	
Typical Genset electrical output 0.8pf 25°C (100 kPa) (KW)	976	1225	1346	
Cylinders	12-cylinder, 60° Vee			
Cycle	4 stroke			
Induction system	Turbocharged			
Combustion system	Direct injection			
Compression ratio	13:01			
Bore * Stroke (mm)	160 * 190			
Cubic capacity (Litre)	45.842			

FUEL SYSTEM

Injection system		Direct	
Governor type		electronic	
Fuel Consumption	on (litre/hour)		
	Standby	341	
Prime		310	
Baseload		249	
75% output power		234	
	50% output power	157	

COOLING SYSTEM

Total coolant capacity: Jacket Water (Litres)	
engine only	73
Temperate cooling (engine and radiator)	207
Tropical cooling (engine and radiator)	210
Thermostat operating range (°C)	71-85
Shutdown switch setting (°C)	101

LUBRICATION SYSTEM

Total system capacity (liter)	177
Maximum sump capacity (liter)	157.5
Minimum sump capacity (liter)	115
Oil temperature at normal operating conditions (°C)	105
Oil pressure at rated speed (kPa)	400
Oil pressure Minimum @80°C (kPa)	340
Shutdown switch - pressure setting (kPa)	193 (falling)

INDUCTION SYSTEM

Maximum air intake restriction of engine (kPa)	
Clean filter	2
Dirty filter	4
Combustion air flow(standby/prime power) (m ³ /min)	128 / 120

EXHAUST SYSTEM

Back pressure for total system (kPa)	5
Exhaust gas temp. after turbo(standby/prime power)(°C)	455
Exhaust gas flow (standby/prime power) (m ³ /min	320

ELECTRICAL SYSTEM

Alternator voltage (volts)	24
Alternator output (amps)	55
Stater motor type (volts)	24
Starter motor power (kw)	8.2

ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd		
Alternator brand	Stamford		
Alternator model	PI734B		
Control system	PMG		
A.V.R.	Included		
Voltage regulation	±1%		
Insulation system	Class H		
Protection	IP23		
Rated power factor	0.8		
Winding pitch	Two thirds		
Winding leads	6		
Frequency (Hz)	60		
Voltage (V)	220		
Phase	3		
Output ratings (kVA/kW)			
Cont.H-40°C	1625/1300		
Standby-27°C	1788/1430		
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

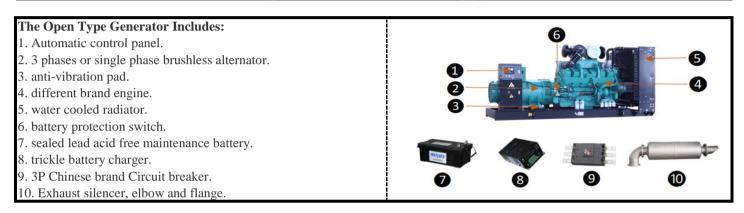
- •3 phase AMF function•3 phase generator protections
- over/under frequency, over/under voltage, over current
- •True RMS voltage measurement
- •True RMS current measurement
- •Event and performance log
 - Gen-set ext alarm, Engine hours history, ECU Text alarm,
- Test Run scheduler
- Power Measurements
- •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



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