



## **Output Ratings**

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standb	y Power
model	(V)				KVA	KW	KVA	KW
AP2035	230/400	50	3	0.8	1850	1480	2035	1628
•220/380V 240/415V 254/440V is available								

Dimension & weight

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AP2035	Open	6200*2230*2650	124000
AF2055	Silent	7200*2550*2900	157000

#### **Other datas**

Circuit Breaker capacity (A)	3200
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:AP2035

# **BPerkins**®

## **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	4016TAG1A			
Engine speed (rpm)		1500		
	Baseload power	Prime power	Standby power	
Gross engine power (KW)	1270	1588	1741	
Typical Genset electrical output 0.8pf 25°C (100 kPa) (KW)	1170	1476	1622	
Cylinders	16-cylinder, 60° Vee			
Cycle	4 stroke			
Induction system		Turbocharged		
Combustion system	Direct injection			
Compression ratio	13:1 nominal			
Bore * Stroke (mm)	160 * 190			
Cubic capacity (Litre)	61.123			

#### **FUEL SYSTEM**

Injection system		Direct
Governor type		electronic
Fuel Consumption (litre/hour)		
	Standby	424
Prime		383
Baseload		297
	75% output power	277
50% output power		185
	25% output power	102

#### **COOLING SYSTEM**

Total coolant capacity: Jacket Water (Litres)	
engine only	95
engine and radiator	316
Thermostat operating range (°C)	71-85
Shutdown switch setting (°C)	96
LUBRICATION SYSTEM	

#### LUBRICATION SYSTEM

Maximum sump capacity (liter)	214
Minimum sump capacity (liter)	147
Oil temperature (in rail)-Max. continuous operations (°C)	105
Oil pressure Minimum @80°C (kPa)	340
Shutdown switch - pressure setting (kPa)	193 (falling)

#### **INDUCTION SYSTEM**

Maximum air intake restriction of engine (mmH <sub>2</sub> O)		
Clean filter	127	
Dirty filter	380	
Combustion air flow(standby/prime power) (m <sup>3</sup> /min)	140 / 132	

#### EXHAUST SYSTEM

Back pressure for total system (mmH <sub>2</sub> O)	949
Exhaust gas temp. after turbo(standby/prime power)(°C)	439
Exhaust gas flow (standby/prime power) (m <sup>3</sup> /min	343

#### ELECTRICAL SYSTEM

Alternator voltage (volts)	24
Alternator output (amps)	55
Stater motor type (volts)	24
Starter motor power(kW)	16.4

## ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd	
Alternator brand	Stamford	
Alternator model	PI734E	
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)	50	
Voltage (V)	400	
Phase	3	
Output ratings (kVA/kW)		
Cont.H-40°C	1900/1520	
Standby-27°C	2035/1628	
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**





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

  - 6 radiator
  - 7)insluation 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**



## Xiamen AI Power Technology Co., Ltd.

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