



# **Output Ratings**

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standb	y Power
model	(V)				KVA	KW	KVA	KW
AP150	230/400	50	3	0.8	135	108	150	120
•220/380V 240/415V 254/440V is available								

Dimension & weight

Generator set	Tuna	L*W*H(mm)	Waight(kg)
model	Туре		Weight(kg)
AP150	Open	2260*760*1570	1500
AF 150	Silent	3300*1120*1800	2000

#### **Other datas**

Circuit Breaker capacity (A)	315
Battery brand	Varta
Base Fuel Tank Capacity(L)	240

#### 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:AP150

# **BPerkins**<sup>®</sup>

# **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	1106A-70TG1		
Engine speed (rpm)	1500		
	Prime power	Standby power	
Gross engine power (kWb)	124	137	
Typical Genset electrical output 0.8pf 25°C (100 kPa) (KW)	108	120	
Cylinders	6-cylinder, vertical in line		
Cycle	4 stroke		
Induction system	Turbocharged, air charge cooled		
ICombustion system	Direcct inje	ection	
Compression ratio	18.2:1		
Bore * Stroke (mm)	105*135		
Cubic capacity (Litre)	7.01		

#### FUEL SYSTEM

Injector	Mechanical
Fuel pump	DP210G
Fuel Consumption (litre/hour)	
110%	32.9
100%	29.9
75%	22.1
50%	15.1
25%	8.9

#### **COOLING SYSTEM**

Total system capacity(litre)	21
Engine capacity(litre)	9.5
Max. top tank temperature (°C)	110
Thermostat operating range (°C)	82-93
Shutdown switch setting(°C)	118

#### LUBRICATION SYSTEM

16.5
12.4
14.9
125
340
<0.1

#### **INDUCTION SYSTEM**

Maximum air intake restriction of engine (kPa)	
Clean filter	3
Dirty filter	5
Combustion air flow(standby/prime power) (m <sup>3</sup> /min)	7.6/7.22

#### EXHAUST SYSTEM

Back pressure for total system (kPa)	6
Exhaust gas temp. after turbo(standby/prime power)(°C)	561
Exhaust gas flow (standby/prime power) (m <sup>3</sup> /min)	20.53/18.85

### ELECTRICAL SYSTEM

Alternator voltage (volts)	12
Alternator output (amps)	65
Stater motor type (volts)	12
Starter motor power (kw)	4.2

# ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd	
Alternator brand	Stamford	
Alternator model	UCI274E	
Control system	SELF EXCITED	
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	12	
Frequency (Hz)	50	
Voltage (V)	400	
Phase	3	
Output ratings (kVA/kW)		
Cont.H-40°C	140/112	
Standby-27°C	150/120	
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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