



Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standb	y Power
model	(V)				KVA	KW	KVA	KW
AP250	230/400	50	3	0.8	225	180	250	200
•220/380V 240/415V 254/440V is available								

 $\bullet 220/380V$, 240/415V, 254/440V is availa

Dimension & weight

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AP250	Open	2610*900*1750	1900
AF230	Silent	3500*1200*1850	2650

Other datas

Circuit Breaker capacity (A)	400	
Battery brand	Varta	
Base Fuel Tank Capacity(L)	390	

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:AP250

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.

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GENERAL ENGINE DATA

Engine manufacture	Perkins Engines Company Limited		
Engine brand	Perkins		
Engine model	1506A-E88TAG2		
Engine speed (rpm)	1500		
	Prime power	Standby power	
Gross engine power (kWb)	213	236	
Typical Genset electrical output 0.8pf 25°C (100 kPa) (KW)	184	200	
Cylinders	6-cylinder, vertical in line		
Cycle	4 stroke		
Induction system	Turbocharged, air to air after cooled		
ICombustion system	Direcct injection		
Compression ratio	16.1:1		
Bore * Stroke (mm)	112*149		
Cubic capacity (Litre)	8.8		

FUEL SYSTEM

Injection system		Direct	
Governor type		electronic	
Fuel Consumption (litre/hour)			
	Standby	51.5	
	Prime	48.6	
	75% output power	35.7	
	50% output power	23.5	

COOLING SYSTEM

Total system capacity(litre)	29.6
Engine(litre)	13.9
Radiator(litre)	12.6
Max. top tank temperature (°C)	107
Thermostat operating range (°C)	87-98

LUBRICATION SYSTEM

Total lubrication system capacity (dry change)(litre)	41
Total lubrication system capacity (oil change)(litre)	39
Sump capacity only(liter)	36
Oil temperature (in sump) maximum(°C)	120
Oil temperature (in sump) normal continuous operation(°C)	115
Lubricating oil pressure at bearings(kPa)	370
Minimum oil pressure(kPa)	250

INDUCTION SYSTEM

Maximum air intake restriction of engine (kPa)	
Clean filter	3.7
Dirty filter	6.2
Combustion air flow(standby/prime power) (m ³ /min)	15/14.4

EXHAUST SYSTEM

Back pressure for total system (kPa)	10
Exhaust gas temp. after turbo(standby/prime power)(°C)	475/467
Exhaust gas flow (standby/prime power) (m ³ /min)	35.7/34.4

ELECTRICAL SYSTEM

Alternator voltage (volts)	24
Alternator output (amps)	45
Stater motor type (volts)	24
Starter motor power (kw)	5.3 or 6

ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd	
Alternator brand	Stamford	
Alternator model	UCDI274J	
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	230/184	
Standby-27°C	260/208	
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



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