



Output Ratings

Generator	· set	Voltage	Hz	Phase	P.F.	Prime	Power	Standb	y Power
model		(V)				KVA	KW	KVA	KW
AP84		127/220	60	3	0.8	76	61	84	67
•220/380V, 254/440V, 277/480V, is available									

Dimension & weight

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AP84	Open	1720*750*1230	1020
AF 04	Silent	2500*1000*1550	1450

Other datas

Circuit Breaker capacity (A)	250
Battery brand	Varta
Base Fuel Tank Capacity(L)	142

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: AP84

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	1104A-44TG1		
Engine speed (rpm)	1800		
	Prime power	Standby power	
Gross engine power (kWb)	70.7	77.8	
Typical Genset electrical output 0.8pf 25°C (100 kPa) (KW)	61	66.9	
Cylinders	4-cylinder, vertical in line		
Cycle	4 stroke		
Induction system	Turbocharged, air-to-air charge cooled		
ICombustion system	Direcct injection		
Compression ratio	17.25:1		
Bore * Stroke (mm)	105*127		
Cubic capacity (Litre)	4.4		

FUEL SYSTEM

Type of injection		direct
Governor type		electronic
Fuel Consumption (litre/hour)		
	110%	19.5
	100%	17.7
	75%	13.5
	50%	9.6
	25%	4.7

COOLING SYSTEM

Total system capacity(litre)		
	with radiator	13
	without radiator	7
Max. top tank temperature (°C)		110
Thermostat operating range (°C)		82-93

LUBRICATION SYSTEM

Lebideillien Sisten	
Max. total system oil capacity(litre)	8
Min. oil capacity in sump(litre)	5.5
Max. oil capacity in sump(litre)	7
Oil temperature (in sump) normal continuous operation(°C)	125
Oil consumption at full load(% of fuel)	0.15

INDUCTION SYSTEM

Maximum air intake restriction of engine (kPa)	
Clean filter	5
Dirty filter	8
Combustion air flow(standby/prime power) (m ³ /min)	5.5/5.3

EXHAUST SYSTEM

Back pressure for total system (kPa)	10
Exhaust gas temp. after turbo(standby/prime power)(°C)	535/505
Exhaust gas flow (standby/prime power) (m ³ /min)	14.3/13.5

ELECTRICAL SYSTEM

Alternator voltage (volts)	12
Alternator output (amps)	65
Stater motor type (volts)	12
Starter motor power (kw)	3

ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd		
Alternator brand	Stamford		
Alternator model	UCI224F		
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)	60		
Voltage (V)	220		
Phase	3		
Output ratings (kVA/kW)			
Cont.H-40°C	87.5/70		
Standby-27°C	95.0/76.0		
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

Add: No.12 East Haijing Road, Xiamen Area of Pilot Free Trade Zone of China Tel: +86-592-6031835 | Email: sales@aipowergen.com | www.aipowergen.com

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
- O 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.

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