ARES SERIES

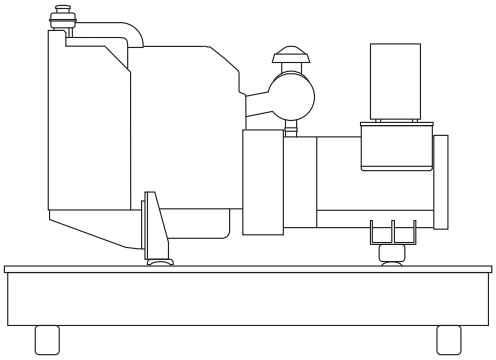
AP65/S – AP100/S

65-100 kVA

3 PHASE

EnSmart
Power Conversion & Energy Storage
MADE IN THE UK

WATER COOLED | 3 PHASE | 50 HZ | NON-COMPLIANT | DIESEL



	Generator Ratings (Prime/Standby)		
	AP65/S	AP80/S	AP100/S
PRIME POWER	**65 kVA**	**80 kVA**	**100 kVA**
	52 kW	64 kW	80 kW
STANDBY POWER	**72 kVA**	**88 kVA**	**110 kVA**
	57 kW	70 kW	88 kW
RPM	1500	1500	1500
POWER FACTOR	0.8	0.8	0.8

EnSmart Ares AP Series - with Perkins Engines Coupled to Stamford or Meccalte Alternators.
Our diesel generators are available as an opentype or built in to soundproof canopies.
Please contact EnSmart on + 44 20 3808 85 60 for full specification and details.

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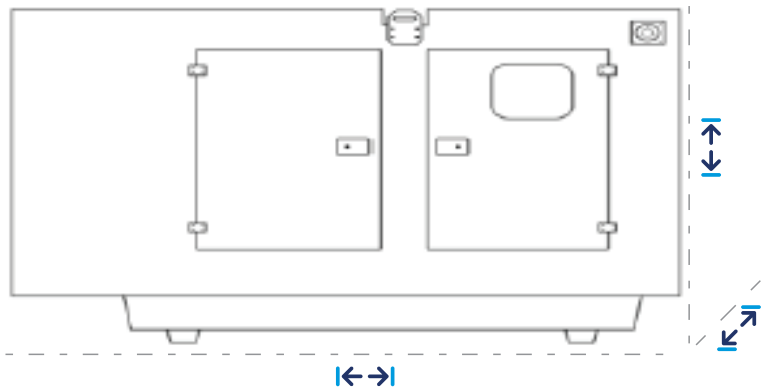
CANOPY GENERATORS



	Dimensions & Weights		
	AP65/S	AP80/S	AP100/S
↔	2220	2570	2570
↙↗	1060	1160	1160
↕	1775	1775	1775
KG	1300	1300	1400

☑ UK / EU Components.

Security and Safety

- Control panel viewing window in a lockable access door
- Emergency stop push button mounted on enclosure exterior.
- Internal Fuel filling point and mechanical fuel gauge for safety and environmental purposes.
- Large base tank, to support longer running times.
- Industrial exhaust muffler with rain cap.

Excellent Service and Maintenance Access

- Large doors for easy servicing
- Radiator filling point on the roof (UK Standard)
- Colour coded wiring looms.

Transportability

- Lift hooks/Forklift space strong enough to support whole generator.

Specific Canopy Features:

As standard all our units come with an Emergency Stop Button on the outside, for health and safety reasons.

Large base tank to support longer running times.

Lifting hooks, strong enough to support the generator when lifting, and doesn't protrude higher than the canopy roof.

Water Filling Point on the roof, to make easy access point for water

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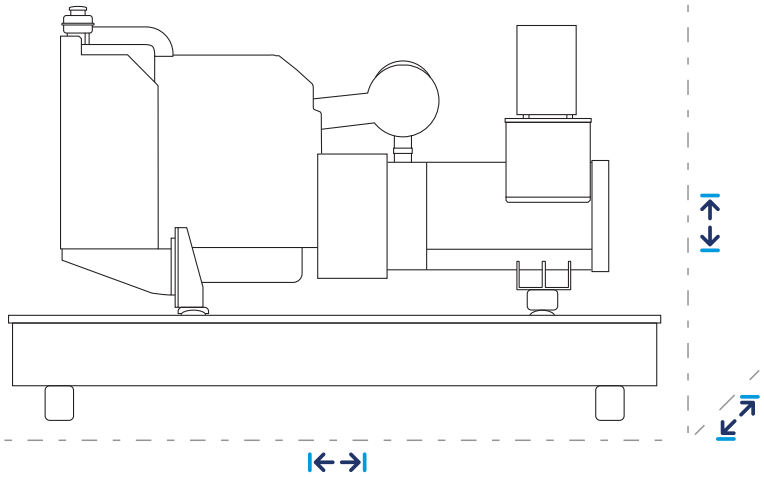


OPEN TYPE GENERATORS

	Dimensions & Weights		
	AP65/S	AP80/S	AP100/S
↔	1840	1890	1890
↙↗	740	740	740
↕	1470	1560	2090
KG	1100	1100	1160

UK / EU Components.

Key Features

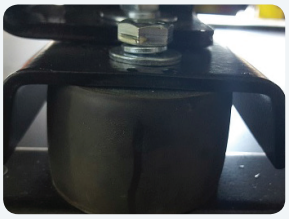
- Skid base manufactured from high grade steel
- Colour coded wiring looms (to aid maintenance)
- High quality, noise reducing silencer
- Anti vibration mounts, for the engine and alternator
- Mechanical fuel gauge for ease of checking
- Large robust fuel tank to provide a minimum of 8 hour operation time
- Easy fuel filling point
- Forklift space strong enough to support whole generator.

Security and Safety

- Lockable control panel
- Emergency stop button
- Cooling fan and battery charging alternator fully guarded.

Specific Open Type Features:

External Fuel Gauge allows for easy monitoring and



UK Anti-Vibration Mounts, for the engine and alternator, to ensure the longevity of your generator.

High quality, noise reducing Silencer.

Large robust fuel tank to provide a minimum of 8 hour operation time (5-690kva)

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		Fuel Consumption & Sound Levels		
		AP65/S	**AP80/S**	**AP100/S**
TANK CAPACITY (Litres)		175	175	175
FUEL CONSUMPTION: (Litres per Hour)	110%	16.5	24.4	24.9
	100%	14.8	22.3	22.6
	75%	11.2	16.9	17.9
SOUNDPROOFED CANOPY dBA RATINGS: (75%)	7M	69	69	69
	1M	82	82	82

	Engine Technical Data		
	AP65/S	**AP80/S**	**AP100/S**
ENGINE BRAND:	Perkins	Perkins	Perkins
ENGINE MODEL:	1104A-44TG1	1104A-44TG2	1104C-44TAG2
INDUCTION:	Nat. Aspirated	Turbo Charged	Turbo Charged
COOLING:	Water Cooled	Water Cooled	Water Cooled
GOVERNOR TYPE:	Mechanical	Mechanical	Electrical
CYLINDER:	4	4	4
BORE STROKE (mm):	105 x 127	105 x 127	105 x 127
COMPRESSION RATIO:	17.25:1	17.25:1	18.2:1
DISPLACEMENT (L):	4.4	4.4	4.4
OIL CAPACITY (L):	8	8	8

		Alternator Technical Data		
		AP65/S	**AP80/S**	**AP100/S**
ALTERNATOR MODEL	MeccAlte	ECP32-1L	ECP32-2L	ECP34-2S/4
	Stamford	UCI224F	UCI224G	UCI274C
BEARINGS:		1	1	1
WINDING PITCH:		2/3	2/3	2/3
WIRES:		12	12	12
CLASS:		H	H	H
VOLTAGE REGULATOR:		AREP/AVR	AREP/AVR	AREP/AVR
PROTECTION :		IP23	IP23	IP23

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AUTO START / MANUAL CONTROL PANEL (STANDARD)

Deep Sea Electronics is one of the world's top manufacturers of generator control, auto transfer switch and battery charger equipment. They employ over 120 people on four continents and supply EnSmart Power from their UK head office and production plant.

DSE4520 Manual Control Module

Please see Deep Sea PLC Control Module brochure for full specification.

DSE4520 Auto Mains Failure Control Module

Please see Deep Sea PLC Control Module brochure for full specification.

DSE7000 Series – Auto Mains Failure Control Module

Please see Deep Sea PLC Control Module brochure for full specification.

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OPTIONAL ACCESSORIES

Operation:

- Automatic Transfer Switches
- Manual Transfer Switches
- Automatic Fuel Transfer
- External Plug Sockets

Service & Maintenance:

- Minor & Major Service Parts
- Service Contracts (UK Customers)

Control:

- GSM Modem
- Remote Control Start

Further Options:

- Fuel Tanks – External/Large/Underground
- Bespoke Canopies (including Colour)
- Slow/Fast Trailer
- & Many More

GENERATOR ESSENTIAL SERVICE PARTS

As well as stocking a huge range of EnSmart Diesel generator parts, our EnSmart essential parts division supplies parts for all major brands and can dispatch them anywhere in the world – 24hrs a day, 7 days a week.

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