









Generating Rates

POWER RATING		STANDBY	PRIME
POWER	KVA	313	281
	KW	250	225
Rated Speed	R.P.M	1800	
Standard Voltage	V	480	
Available Voltages	V	480/277-440/254-220/127-208/120	
Rated at power factor	Cos Phi	0.8	

Ambient conditions of reference: 1000 mbar, 25°C, 30% relative humidity. Power according to ISO 3046 normative.

P.R.P. Prime Power - ISO 8528: prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24

Standby Power (ISO 3046 Fuel Stop power): power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% load 25h per year – 90% load 200h per year. No overload available. Applicable i







■ Engine Specifications 1800 r.p.m.

Engine opcomodione root ripim.				
ENGINE	STANDBY PRI			PRIME
Rated Output	kW	250		225
Manufacturer		Perkins		
Model		1506A-E88TAG3		
No. of Cylindirs and Build		4 Cycl	e; In-line; 6 Cylin	der Diesel
Aspiration and Cooling		Natural Aspiration		
Bore/Stroke	mm	112 X 149		
Compression ratio		16.1:1		
Cooling system		Water-cooled		
Engine Speed/Frequency	rpm/Hz	1800/60HZ		
Starting System		Electric 24 volt DC		
Displacement	L	8.8		
Lubricant system Capacity	L	41		
Battery Volatge / Capacity		24VDC		
Governing Type	Туре	Mechanical		
Air Filter	Туре	Dry		
Fuel Consumption	Load of prime power	100%	75%	50%
	L/h	63	48	33

ENGINE--Industrial 4 stroke cooled diesel engine complete with air,fuel and oil filters,electric starting and charging equipment,engine protection against low water level.

COOLING--Radiator and colling fan complete with protection guards,designed to cool engine at specified output in air temperatures upto 45 °C,radiators suitable for higher temperatures are available.Low water level protection fitted as standard.

ELECTRICAL SYSTEM--12V upto. Axial type starter motor, battery charging alternator, high capacity lead acid battery, and battery tray mounted on the generator base frame, and heavy duty interconnecting cable with terminations.

EXHAUST SYSTEM--Heavy duty industrial exhauset silencer with flexible piping.

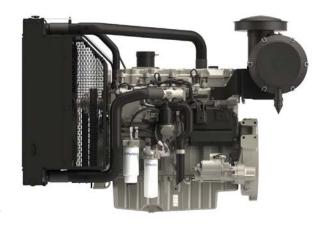
1500 Series 1506A-E88TAG3 Electropak

278 kWm standby net power @ 1800 rpm

Building upon Perkins proven reputation within the power generation industry the Perkins® 1500 Series Electropak engines now fit even closer to our customer's needs.

The 1506A-E88TAG3 ElectropaK is a 6 cylinder, fully electronic, turbocharged, air-to-air charge cooled diesel engine. It is economical, quiet and reliable and provides the high performance that is demanded by our customers for their power generation needs.

Focusing on the Perkins common platform theme, changes to engine envelope dimensions and connection points have been kept to a minimum, making for easy installation across the ratings.



Specification			
Number of cylinders	6 vertical in-line		
Bore and stroke	112 x 149 mm 4.5 x 5.8 in		
Displacement	8.8 litres 537 in ³		
Aspiration	Turbocharged aftercooled		
Cycle	4 stroke		
Combustion system	Direct injection		
Compression ratio	16.1:1		
Rotation	Anti-clockwise, viewed on flywheel		
Total lubricating capacity	41 litres 9.01 US gal		
Cooling system	Liquid		

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Features and benefits

Dependable power

- The 1506A-E88TAG3 delivers greater productivity through an improved power to weight ratio
- The world-class power density has been achieved from an 8.8 litre turbocharged engine using a hydraulic actuated
 unit injection (HEUI) fuel system; making this engine robust for all markets due to its ability to cope with the variation
 of fuel quality around the world
- In its class, the 1506A-E88TAG3 has been designed to provide dependable power even in extreme ambient climates

Low operating costs

- Oil change service intervals are set at 500 hours as standard
- Designed to provide low cost of ownerhsip, simple maintenance and reduced downtime
- 12 months unlimited warranty with 24 months on Major items. For low use applications <500 hours per year warranty is extended by a further 12 months. See Perkins Warranty Policy for further details
- Extended Service Contracts protect and plan the cost of ownership Go to www.perkins.com/esc for more information

Flexibility

- The 1506-E88TAG3 has been designed to hit the power node requirements of our customers
- Switchability functionality from 50 Hz/1500 rpm to 60 Hz/1800 rpm and vice versa is available to provide greater flexibility for frequency selection

World class product support

- Our experienced global network of distributors and dealers, fully trained engine experts deliver total service support
 around the clock, 365 days a year. They have a comprehensive suite of web based tools at their disposal, covering
 technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your
 engine
- Perkins actively pursues product support excellence by insisting our distribution network invest in their territory to provide customers with a consistent quality of support across the globe
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts giving 100% reassurance that you receive the very best in terms of quality for lowest possible cost, wherever your Perkins powered machine is operating in the world
- To find your local distributor: www.perkins.com/distributor



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Technical information

Air inlet system

Mounted air filter and turbocharger

Fuel system

- HEUI fuel system with full authority electronic control
- Electronic governing to ISO 8528-5 with stand-alone isochronous and load-sharing capabilities
- Fuel filter, fuel transfer pump, fuel priming pump
- Spin on primary, secondary and water filter separator

Lubrication system

- · Wet full aluminium sump with filler and dipstick
- Full-flow spin-on filters
- Oil pump, gear driven

Cooling system

- Thermostatically controlled with belt driven, circulating pump and belt-drive fan
- Mounted belt driven pusher fan
- Radiator supplied loose with all guards and pipes
- Air-to-air charge cooler incorporated in radiator

Electrical equipment

- 24V starter motor and 24V, 45 amp alternator with DC output
- Electronic Control Module (ECM) mounted on engine with wiring looms and sensors

Flywheel and housing

- High inertia flywheel to SAE 1 J620 Size 355.6 mm (14 in)
- Aluminium SAE 1 flywheel housing

Mountings

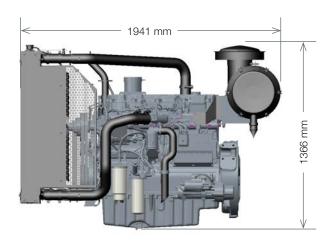
· Front engine mounting bracket



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Engine package weights and dimensions				
Length (including air cleaner)	1941 mm	76 in		
Width	1013 mm	40 in		
Height	1366 mm	54 in		
Weight (dry)	1136 kg	2502 lb		

1500 Series 1506A-E88TAG3 ElectropaK

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Speed Type of		Typical generator output		Engine power (Net)	
rpm	operation	kVA	kWe	kWm	hp
Prime power		281	225	250	335
1800	Standby power	313	250	278	373

Percent of prime power	Fuel consumption at 1800 rpm g/kWh	Fuel consumption at 1800 rpm l/hr
Standby power	200	70
Prime power	199	63
75%	199	48
50%	208	33









Alternator Technical Specifications

ALTERNATOR BRAN	ID	STAMFORD	LEROY SOMER
Model			LSA 46.2 L6
Exciter System		Self-excited, brushless	
Poles	Num	4	
Cooling Fan		Cast alloy aluminum	
Bearing		Single, double shielded	
Windings		100% copper	
Connection Type		Reconnectable	
Insulation Type	Class	Class H	
Pitch		2/3	
Amortisseur Winding		Full	
Voltage Regulator		A.V.R. (Electronic)	
Steady Voltage Precision		± 1%	
Underspeed Protection		Standard	
Overexcitation Protection		IP23	
TIF (1960 Weightings)		<50	

ALTERNATOR--Brushless, self exciting, self regulation, sreen protected, drip proof rated in accordance with IEC60034.Voltage regulation maintained within ±0.5% from no load to full load. between 0.8 lagging and unity. All standard voltages available





Model: KYP281

INDUSTRIAL RANGE Powered by

Perkins

Control Panel Technical Specifications





DSE6110

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

FEATURES

DSE**6110**



KEY FEATURES

- Back-lit text LCD display
- Front panel editing
- LED and LCD alarm indication
- Power Save mode
- CAN and Magnetic Pick-up/Alt. versions available (specify on ordering)
- PC and front panel configuration
- 6 Digital inputs
- 3 Analogue inputs
- 6 Outputs (4 configurable on Magnetic Pick-up/Alt., 6 configurable on CAN version)
- Configurable timers and alarms
- Alternative configuration
- Event Log(10)
- Remote Start input
- 3 Phase generator monitoring

- Current Monitoring and protection
- Battery voltage monitoring
- Engine pre-heat
- Hours counter
- Comprehensive shutdown or warning on fault condition

KEY BENEFITS

- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout

- Multiple engine parameters are monitored simultaneously
- Module can be configured to suitindividual applications
- Compatible with a wide range of CAN engines
- Tier 4 engine support
- Uses DSE Configuration Suite PC software for simplified configuration
- IP65 rating (with optional gasket) offers increased resistance to water ingress
- · Licence-free PC software

SPECIFICATION

DC SUPPLY

CONTINUOUS VOLTAGE RATING 8 V to 35 V Continuous

CRANKING DROPOUTS

Able to survive 0 V for 50 mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries. LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT

178 mA at 12 V, 95 mA at 24 V

MAXIMUM STANDBY CURRENT 88 mA at 12 V,50 mA at 24 V

CHARGE FAIL/EXCITATION RANGE

MAINS (UTILITY) DSE6120 ONLY

VOLTAGE RANGE

15 V - 333 V AC (L-N)

FREQUENCY RANGE 3.5 Hz to 75 Hz

OUTPUTS

0 V to 35 V

OUTPUT A (FUEL) 2 A DC at supply voltage

OUTPUT B (START)

2 A DC at supply voltage

AUXILIARY OUTPUTS C,D,E & F

2 A DC at supply voltage

GENERATOR

VOLTAGE RANGE 15 V - 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

MAGNETIC PICK UP

VOI TAGE RANGE +/- 0.5 V to 70 V

FREQUENCY RANGE

10,000 Hz(max)

DIMENSIONS

OVERALL 215 mm x 158 mm x 42 mm 8.5" x 6.2" x 1.6"

PANEL CUT-OUT

182 mm x 137 mm 7.2" x 5.4"

MAXIMUM PANEL THICKNESS

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C





Generating Sets Standard Features

Three phase four wire, output voltage 480V/277V,60HZ,between 0.8 lagging, protection capability according with the standard of NAME1 and IP23.

General Features:

Composed of Perkins diesel engine and Stamford or Leroy Somer

alternator Oil and fuel filter fitted, water separator

Lube-oil drain valve fitted

Electric Starter Charge motor 12

VD.C Water-cooled

8-hours operation base tank

Auto start

Optional soundproof and weatherproof canopy

3 pole MCCB Delixi breaker

Operation & Maintenance manual

Special Integrated Steel Base tank and sprayed overall in gloss enamel paint

Voltage Regulation:

Voltage regulation maintained within ±0.5%

Between 0.8 and 1.0 lagging and unity

From no load to full load

At speed droop variation upto 4.5%

Frequency Adjustable Ratio:

Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

Frequency Undulation:

load from 0-100%, frequency undulation within 0.25%

No load wire volts max undulation ration\ within 1.8%

Three Phrase balanced load in the order of 5%

Effect factor of Telecom

TIF better than 50

THF to IEC60034 Part 40 better than 2%





Soundproofed Version Features

Robust Corrosion Resistant Construction

Black finish stainless steel lock and hinges Body made from steel components treated with polyester powder coating

Excellent Access for Maintenance

Two large doors on each side Radiator fill access plate lube oil and cooling water drains pipes to exterior of the enclosure

Security and Safety

Control panel viewing window in a lockable access door Emergency stop push button (red)mounted on enclosure interior Cooling fan and battery charging alternator fully guarded Exhaust silencing system totally enclosed for operator safely





Model: KYP281 INDUSTRIAL RANGE

Powered by Perkins

Generating Sets other Features

Generating Sets Optional Features

Low fuel level alarm shutdown

Automatic Fuel Filling System

Engine oil feeding and drain pump

Auto Transfer Switch(ATS)

Parallel control panels

Circuit Breaker MCCB & ACB

Remote Control Panel

weatherproof/soundproof

Canopy Trailer type Gensets

Quality Standards

ISO9001:2000,ISO14000,ISO3046

ISO8528 BS4999

BS5514,AS1359,ICE34

CE Compliance

Gensets Dimensions

Silence type: LxWxH (mm) - Weight in kg

4050*1430*1980 - 2982

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