Perkins 500 kVA

MAIN FEATURES

Limited number of screws outside the canopy.	Welded frame with integrated fuel tank and drip tray, protecting environment from leakage of the fluid.
Limited number of screws outside the canopy.	Wide range of fuel tank capacities available.
Electrical box protected by genset canopy, with controller display.	Possibility of increased protection against fuel leakage – fuel tank separated from the frame.
Cable entry protected by rubber cover.	Key locked fuel inlet outside of the canopy.
Power socket available outside of the canopy.	Anchoring points covered by external covers.
Easy maintenance access to major components.	Crane or pallet truck lifting.
High quality noise insulation materials.	High quality mufflers for exhaust system.

GENERAL DATA

Model	DPX-17661
Standby power E.S.P. [kVA] / [kW]	506,0 / 405,0
Prime power P.R.P. [kVA] / [kW]	460,0 / 368,0
Prime current P.R.P [A]	664,0
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	stage II
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	51
- 75% load [l/h]	73
- 100% load [l/h]	99,0
- 110% load [l/h]	109
Standard fuel tank capacity [l]	1000
Autonomy with 100% load [h]	10,1
Weight without fuel [kg]	~4920
Dimensions L x W x H [mm]	4625 x 1818 x 2280
Guaranteed noise power Lwa [dBA]	(98)
Acoustic pressure Lpa (dla 7m) [dBA]	(70)

Nominal power P.R.P:

Prime power available in variable load application in accordance with ISO 8528, 10% overload capacity is available for a period of 1 hour within a 12-hour period of operation. Average power consumption should not exceed 80% P.R.P for each 24h of work.

Stand-by power E.S.P.:

Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, limited to 500 operation hours per year. Limited to 300 operation hours of continuous duty.

Remark:

Ratings represent the genset performance capabilities to standard conditions specified in ISO 8528-1

Norms and directives:

- Machinery directive 2006/42/WE
- Low voltage directive 2006/95/WE
- EC directive 2004/108/WE
- Noise directive 2000/14/WE
- Emission directive 97/68/WE
- ISO 8528-1/2005, PN-ISO 8528-5/2005
- PN-EN 12601
- PN-EN 60204-1

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DPX POWER
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Perkins 500 kVA

STANDARD CONTROLLER

- Controller type: AMF25
- Easy to operate, intuitive graphical interface
- Real time clock with battery supply
- AMF function available
- Flexible event based history with up to 119 events
- 3 Phase generator current measurement
- Generator and Mains phase voltage measurement
- Active/reactive power measurement
- Active and reactive energy counter
- Running hours counter
- Battery charging alternator circuit connection
- Fuel level measurement
- Generator protection (over/under frequency, voltage, overcurrent)
- Communication with ECU supporting CAN J1939 standard
- Communication interface RS 485 and RS 232 supporting Modbus RTU (IL-NT RS232-485 module required)
- GSM modem / wireless internet (IL-NT GPRS module required)
- Internet/Ethernet communication (IB-Lite module required)
- InteliMonitor software for single gen-set view
- WebSupervisor software for Android mobile devices or PC's for fleet management
- Active SMS or e-mail (IL-NT GPRS or IB-Lite module required)

ENGINE

Brand	Perkins
Type	2506C-E15TAG1
Made in	USA
Engine power [kW]	396,0
Emission standard*	stage II
Rotation per minute [rpm]	1500
Engine governor	electronic
Governor class**	G3
Displacement [l]	15,0
No of cylinder	6
Fuel system	direct injection
Electrical system [V]	24
Coolant	Shell Anti Freeze
Cooling system capacity [l]	58,0
Engine oil	Shell Rimula R4L
Oil pan capacity [l]	62,0
Fuel type	Diesel (EN 590)
Fuel consumption at 75% load [l/h]	73
Fuel consumption at 100% load [l/h]	99,0

* According directive 97/68/WE non road mobile machinery engine emission.

** According PN-ISO 8528-5/2005

ALTERNATOR

Brand	Leroy Somer
Type	TAL047B
Made in	France
Power (40 ºC, 1000m a.m.s.l.) [kVA]	500,0
Stand by power (27 ºC, 1000m a.m.s.l) [kVA]	520,0
Efficiency [%]	93,8
Voltage regulator type	AVR AS440
Voltage accuracy [%]	+/- 1
IP protection	IP 23
Insulation class	H
Total harmonic content THD [%]	<1,5
Reactance Xd'' [%]	13

* STAMFORD or other alternator suppliers on request. Genset general data may change in this case.

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STANDARD EQUIPMENT	OPTIONAL EQUIPMENT
Controller ComAp AMF25	Three phase sensing AVR
Controller switch	Alternator with PMG
3 Pole GCB Eaton LZMN4-AE800	4 Pole GCB Schneider NSX Micrologic 2.3
Shunt GCB release coil	Oil draining hand pump
Analog AVR	Fuel and retention hand pump
Acoustic alarm	Drip space level sensor
Emergency stop button	External fuel tank 1 000 – 10 000 l
Starting batteries 2 x 180 Ah	Fuel tank filling pump and shut-off valve
Battery charger	Battery disconnection switch
Engine preheating with thermostat	ATS with ATS controller
Engine oil Shell Rimula R4L	GPRS communication card
Oil low pressure switch	Ethernet card
Oil pressure sensor	RS 485, RS 232 card
Engine high temperature switch	Remote display
Engine high temperature sensor	Nonstandard canopy color
Electronic engine speed governor	
Fuel tank integrated in frame with drip tray	
Fuel inlet outside of the canopy with lock	
Fuel level measurement	
Fuel filter with water separator	
Exhaust compensator and silencer	
Coolant Shell Anti Freeze	
Coolant inlet outside of the canopy	
Engine and alternator vibro isolators	
Silenced canopy made with Al-Zn	
Standard RAL 7032	
Transportation brackets	
Forklift brackets	

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INSTALLATION GUIDELINES

Power terminal	Bus bar
Recommended cable for up to 30m power cable way	Flexible 2x5x185mm2
Recommended cable for do 30m generator heater supply	Flexible 3x2,5mm2

*For additional cabale connection with ATS see ATS wiring diagram

Exhaust pipe min diameter (max. 7 m, 4 bends)	133 mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	159 mm

MAINTENANCE GUIDELINES

Fuel filters replacement	500 h / 1 year
Oil replacement	After first 100h, then every 500 h / 1 year
Oil filters replacement	After first 100h, then every 500 h / 1 year
Coolant replacement	1000 h / 2 years
Battery replacement	2 years
Electrical installation supervising	According to local requirements, at least once peryear

WARRANTY

Back-up power generators	60 months up to 1000 working hours, under condition of required maintenance according to the warranty conditions
Continuous work generators	12 months up to 1000 working hours

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