

MAIN FEATURES

Silenced, weather proof canopy, made of steel with AL Zn anticorrosion coating	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-17656
Standby power E.S.P. [kVA] / [kW]	110,0 / 88,0
Prime power P.R.P. [kVA] / [kW]	100,0 / 80,0
Prime current P.R.P [A]	144,0
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	stage II
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	11,8
- 75% load [l/h]	17,1
- 100% load [l/h]	22,6
- 110% load [l/h]	24,9
Standard fuel tank capacity [l]	170
Autonomy with 100% load [h]	7,5
Engine control voltage [V]	12
Weight without fuel [kg]	1440
Dimensions L x W x H [mm]	2590 x 1138 x 1442
Guaranteed noise power Lwa [dBA]	97
Acoustic pressure Lpa (dla 7m) [dBA]	65,2 ± 1,6

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

Perkins 110 kVA

STANDARD CONTROLLER

Controller type: AMF 25
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

ALTERNATOR

ENGINE	ALTERNATOR
Brand	Perkins
Type	1104C-44TAG2
Made in	Great Britain
Engine power [kW]	90,1
Emission standard*	stage II
Rotation per minute [rpm]	1500
Engine governor	electronic
Governor class**	G3
Displacement [l]	4,4
No of cylinder	4
Fuel system	direct injection
Electrical system [V]	12
Coolant	Shell Anti Freeze
Cooling system capacity [l]	12,6
Engine oil	Shell Rimula R4L
Oil pan capacity [l]	8,0
Fuel type	Diesel (EN 590)
Fuel consumption at 75% load [l/h]	17,1
Fuel consumption at 100% load [l/h]	22,6

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

** According PN-ISO 8528-5/2005

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

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STANDARD EQUIPMENT

Controller ComAp AMF25
Controller switch
3 Pole GCB Eaton LZMC2-VE160
Shunt GCB release coil
Analog AVR
Acoustic alarm
Emergency stop button
Starting batteries 100 Ah
Battery charger
Engine preheating with thermostat
Engine oil Shell Rimula R4L
Oil low pressure switch
Engine high temperature switch
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 color RAL 7032
Transportation brackets

OPTIONAL EQUIPMENT

Three phase sensing AVR
Alternator with PMG
4 Pole GCB Schneider NSX Micrologic 2.3
Oil draining hand pump
Fuel and retention pump
Electronic engine speed governor
Oil pressure sensor
Engine temperature sensor
Drip space level sensor
Dedicated (non-standard) fuel tank *
External fuel tank 1 000 – 10 000 l
Fuel tank filling pump and shut-off valve
Battery disconnection switch
Socket for full power output
Power output – power lock type
Power socket box with appropriate protections *
Transfer switch controlled by generator controller
ATS with ATS controller
GPRS communication card
Ethernet card
RS 485, RS 232 card
Remote display
Nonstandard canopy color

*according to individual agreement

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INSTALLATION GUIDELINES

Power terminal	GCB terminal
Recommended cable for up to 30m power cable way	Flexible 5x50mm ²
Recommended cable for do 30m generator heater supply	Flexible 3x2,5mm ²
*For additional cabale connection with ATS see ATS wiring diagram	
Exhaust pipe min diameter (max. 7 m, 4 bends)	60,3 mm
Exhaust pipe min diameter (max. 15 m, 4 bends)	76,1 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 per year

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