## MAIN FEATURES

Optimal performance resulting from the engine and alternator parameters,

The highest quality of electrical components,

Welded frame with integrated fuel tank,

Large capacity fuel tanks available on request,

Compact frame, adapted to the monoblock dimensions,

Easy maintenance access,

Fuel tank non integrated with the frame as well as drip tray protecting against engine liquid leakage, available on request,

Wide range of standard and optional equipment



## GENERAL DATA

| Model | DPX-17711 |
|---|---|
| Standby power E.S.P. [kVA] / [kW] | 654,0 / 523,0 |
| Prime power    P.R.P. [kVA] / [kW] | 594,0 / 475,0 |
| Prime current P.R.P [A] | 858,0 |
| Frequency [Hz] | 50 |
| Voltage [V] | 400 |
| Exhaust emission | stage II |
| Fuel type | Diesel (EN 590) |
| Fuel consumption - 50% load [l/h] | 59,7 |
| - 75% load [l/h] | 89,5 |
| - 100% load [l/h] | 121,2 |
| - 110% load [l/h] | 134,6 |
| Standard fuel tank capacity [l] | 700 |
| Autonomy with 100% load [h] | 5,8 |
| Engine control voltage [V] | 24 |
| Weight without fuel [kg] | 3800 |
| Dimensions L x W x H [mm] | 3500 x 1143 x 2400 |
| Acoustic power Lwa [dBA] | 122,9 ± 3,1 |
| Acoustic pressure Lpa (7m) [dBA] | 93,5 ± 3,1 |

**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 70% 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, average power consumption should not exceed 80% E.S.P for each 24h

**Remark**:
All parameters are given for reference conditions: ambient air temperature up to 40 C and site altitude above sea level 1000m

**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

# 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

| | |
|---|---|
| Brand | Volvo |
| Type | TAD1642GE |
| Made in | Sweden |
| Engine power [kW] | 503,0 |
| Emission standard* | stage II |
| Rotation per minute [rpm] | 1500 |
| Engine governor | electronic |
| Governor class** | G3 |
| Displacement [l] | 16,1 |
| No of cylinder | 6 |
| Fuel system | unit injectors |
| Electrical system [V] | 24 |
| Coolant | Volvo Coolant VCS |
| Cooling system capacity [l] | 60,0 |
| Engine oil | Shell Rimula R4L |
| Oil pan capacity [l] | 48,0 |
| Fuel type | Diesel (EN 590) |
| Fuel consumption at 75% load [l/h] | 89,5 |
| Fuel consumption at 100% load [l/h] | 121,2 |

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

\*\* According PN-ISO 8528-5/2005

## ALTERNATOR

| | |
|---|---|
| Brand | Sincro* |
| Type | SK355LS |
| Made in | Croatia |
| Power (40 ºC, 1000m a.m.s.l.) [kVA] | 600,0 |
| Stand by power (27 ºC, 1000m a.m.s.l) [kVA] | 654,0 |
| Efficiency [%] | 94,6 |
| Voltage regulator type | Digital AVR |
| Voltage accuracy [%] | +/- 0,25 |
| IP protection | IP 23 |
| Insulation class | H |
| Total harmonic content THD [%] | < 2 |
| Reactance Xd'' [%] | 10,7 |

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

## STANDARD EQUIPMENT

Controller ComAp AMF25
Controller switch
3 Pole GCB Eaton LZMN4-AE800
Shunt GCB release coil
Acoustic alarm
Digital 3 phase AVR
Emergency stop button
Starting batteries 2x180 Ah
Battery charger
Engine preheating with thermostat
Engine oil Shell Rimula R4L
Oil low pressure switch
Oil pressure sensor
Engine high temperature switch
Engine high temperature sensor
Electronic engine speed governor
Fuel tank integrated in frame
Fuel level measurement
Fuel filter with water separator
Exhaust compensator and silencer
Coolant Volvo Coolant VCS
Engine and alternator vibro isolators

## OPTIONAL EQUIPMENT

Alternator with PMG
4 Pole GCB Schneider NS Micrologic 2.0
Fuel and retention pump
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
Transfer switch controlled by generator controller
ATS with ATS controller
GPRS communication modem
Ethernet card
RS 485, RS 232 card
Remote display

*according to individual agreement

## INSTALLATION GUIDELINES

| | |
|---|---|
| Power terminal | Busbar |
| Recommended cable for up to 30m power cable way | Flexible 2x5x240mm2 |
| 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) | 159 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 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 |