

Model	DVD220
Prime Power (50Hz)	200kW/250kVA
Standby Power (50Hz)	220kW/275kVA

## Standard configuration

Vovlo Penta TAD734GE

50 ℃ radiator

ComAp control system MRS10/MRS16/IC-NT

High quality U-steel base frame, integrated high efficiency Absorber

DC high-energy start-up lead-acid batteries

Output circuit breaker

Industrial muffler, ripple flex exhaust pipe

Installation and operation instruction manual



Reference only

### Generator set specification

Rated voltage (V)	400/230
Rated current (A)	360/396
Rated frequency (Hz)	50
Power factor	0.8 (lagging)
Line system	Three-phase four-wire system
Rated speed (r/min)	1500
Voltage adjustment range (%)	95~105
Voltage adjustment rate (%)	≤±0.5 (Stable state) ±15 (Transient state)
Frequency adjustment rate (%)	≤1 (Stable state) ±10 (Transient state)
Voltage fluctuation rate (%)	≤±1
Frequency fluctuation rate (%)	≤0.5
Time for voltage to stabilize (s)	≤1
Time for frequency to stabilize (s)	≤5
Fuel specification and grade	0# light diesel
Fuel consumption rate(g/kw·h)	204(PRP), 205(ESP)
Oil consumption rate(L/h)	0.03
Noise value dB(A)	<105dB 1m at set side
Genset dimension (L×W×H) (mm)	2650×1068×1600 (open type)
	3700×1400×1800 (soundproof type)
Net weight (kg)	1600 without coolant and oil (open type)
Net Weight (Ng)	3330 without coolant and oil (soundproof type)



# Engine specification

Aspiration	Turbocharged, aftercooler
Bore / stroke (mm)	108/130
Displacement (L)	7.15
Cylinder arrangement	6 in line
Compression ratio	18.1:1
Rated speed (RPM)	1500
Maximum output power (kW)	250
Speed control	Electronic

# Exhaust system

Exhaust gas flow(kg/min)	33(PRP),33.4(ESP)
Maximum exhaust gas temp (℃)	495(PRP), 550(ESP)
Maximum back pressure (kPa)	5
Air intake system	
Intake air flow ( kg/min )	16.1(PRP), 16.3(ESP)
Max intake air restriction (kPa)	3.5
Cooling system	
Coolant capacity-engine with cooling package (L)	23.8
Maximum coolant temperature (℃)	113
Thermostat adjustment range (°C )	83-95
Lubrication system	
Minimum capacity (L)	20
Maximum oil temperature (℃)	125
Fuel system	
100%standby power( g/kw·h )	205
100%prime power ( g/kw·h )	204
75%prime power ( g/kw·h )	217
50%prime power ( g/kw·h )	233

# Alternator specification

## Design standard

Compliance with GB755, EN60034, BS5000, VDE0530, NEMAMG1-32, IEC34 standards

Number of phases	3
Connection type	Υ
Bearing	1
Power factor	0.8
Protection grade	IP 23
Insulation class	Н



Temperature rise grade	Н
Winding pitch	2/3
Excitation type	Brushless self excitation
Excitation control mode	AVR

# Control system

Manufacturer and model	ComAp NT MR	S 10
Product description	Functions and protections	
Controller for Single Genset prime or standby application	Over/under voltage     Voltage asymmetry and Phase rotation	
2.Support the electronic control engnies	3.Over/under frequency 4.Overcurrent 5.Overload	
3.Integrated visual design of computer software as configuration / monitoring / control local or remote	6.Power factor 7.Temperature 8.Fuel(Gas) level	
Key features	Basic technical parameters	Intellibrations to ComAp  OF 1981 1981 1881 1855 1 000 000 000 000 000 000 000 000 000
<ol> <li>Automatic or manual start/stop</li> <li>Plug-in expansion, multiple function options (Modbus, network cable, SMS, input/output), one expansion card slot</li> <li>Modify the controller configuration through power supply by the Computer USB output</li> </ol>	<ol> <li>Power supply range: 8 ~</li> <li>36VDC</li> <li>Operating temperature: -20 ~</li> <li>C</li> <li>Voltage measurement inputs:</li> <li>3ph-n Gen voltage,</li> <li>3ph-n Mains voltage</li> <li>Voltage measurement range:</li> <li>277V</li> </ol>	InteliLite NT MRS 10
4.Total have three analog inputs, 6+1 switch input, 6 switch outputs 5.Configurable MODBUS	Voltage measurement range: 40~70 Hz (accuracy 0.1 Hz) Current measurement range: 5A Display type: Build-in monochromatic 3.2" Display resolution: 132×64px	

# Optional accessories

Engine	Control system
Jacket heater	Moisture-proof heater
Oil-water separator	Anti-surge protector
Heavyduty air filter	ComAp InteliLite IC-NT
Coolant level sensor	
Alternator	ATS self - switching system
Anti condensation heater	● ATS(G+M)*
MARATHON/STAMFORD/M generator	● ATS(G+G)*
● PMG	● ATS(G+G+M) *
Air filter	



Fuel system	Сапору
Baseframe mounted fuel tank	Soundproof
Oil-water separator	Trailer
Automatic fuel filling system	Truck mounted
Exhaust system	Spare parts
Residential muffler	Oil filter
Spark extinguisher (instead of the original	Fuel filter
industrial silencer)	Air filter
Catalyst conversion catalyst for high emission	Coolant filter
requirements	Fan belt

### Power defination

#### Prime Power (PRP):

According to ISO8528-1, prime power is available for an unlimited number of annual hours in variable load application. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

### Standby Power (ESP):

According to ISO8528-1, standby power is defined as the maximum power applicable for supplying emergency power for the duration of a utility power interruption. It is capable of delivering for up to 500hours of operation per year. No overload capability is available at this rating.

#### Terms of use

The nominal power assigned by the genset is given for 25 ° C Air Inlet Temperature, of a barometric pressure of 100 kPa (100 m A.S.L), and 30 % relative humidity. For particular conditions in your installation, refer to the derating table.



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