Model	DVD165
Prime Power **(50Hz)**	**150kW/187.5kVA**
Standby Power **(50Hz)**	**165kW/206.3kVA**

Standard configuration

Vovlo Penta TAD732GE
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)	270/297
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)	213(PRP), 214(ESP)
Oil consumption rate(L/h)	0.08
Noise value dB(A)	＜105dB 1m at set side
Genset dimension (L×W×H)（mm）	2550×866×1600 (open type) 3300×1200×1800 (soundproof type)
Net weight（kg）	1500 without coolant and oil (open type) 2930 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）	183
Speed control	Electronic

Exhaust system

Exhaust gas flow（kg/min）	31.9(PRP),35.1(ESP)
Maximum exhaust gas temp（℃）	529(PRP), 542(ESP)
Maximum back pressure（kPa）	5
Air intake system	
Intake air flow（ kg/min ）	11.4(PRP), 12.4(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 (℃)	83-95
Lubrication system	
Minimum capacity（L）	20
Maximum oil temperature（℃）	125
Fuel system	
100%standby power（ g/kw·h ）	214
100%prime power（ g/kw·h ）	213
75%prime power（ g/kw·h ）	213
50%prime power（ g/kw·h ）	219

Alternator specification

Design standard

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

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

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

Control system

Manufacturer and model	ComAp NT MRS 10

Product description	Functions and protections
1.Controller for Single Genset prime or standby application 2.Support the electronic control engnies 3.Integrated visual design of computer software as configuration / monitoring / control local or remote	1.Over/under voltage 2.Voltage asymmetry and Phase rotation 3.Over/under frequency 4.Overcurrent 5.Overload 6.Power factor 7.Temperature 8.Fuel(Gas) level
Key features	**Basic technical parameters**
1. Automatic or manual start/stop 2.Plug-in expansion, multiple function options (Modbus, network cable, SMS, input/output), one expansion card slot 3.Modify the controller configuration through power supply by the Computer USB output 4.Total have three analog inputs, 6+1 switch input, 6 switch outputs 5.Configurable MODBUS	1. Power supply range：8 ~ 36VDC 2. Operating temperature：-20 ~ 70℃ 3. Voltage measurement inputs：3ph-n Gen voltage， 4. 3ph-n Mains voltage Voltage measurement range：277V 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



InteliLite NT MRS 10

Optional accessories

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

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