

Energetic independence

TV transmitter on mountain Nanos. LDE 450 V



 **STUBELJ**

Series LDE V

Maximum durability and safe operation

Series LDE V



LDE Series

Genset for island operation, standby and parallel operation with the network and / or other genset. Standard equipment of the generating sets: engine cooling system, starter, alternator and exhaust silencer, alternator with automatic voltage regulator (AVR), base-frame with fuel tank and the collecting vessel, basic wiring, batteries, coolant and lubricating oil.

VOLVO ENGINES

Diesel engines, 4-stroke, direct injection, charging through the turbine and / or intercooled, suitable for continuous operation or standby operation. Benefits of Volvo engines are reliability, power and economy. Well-balanced engines to ensure a smooth operation without vibration and low noise level. To maintain a controlled temperature in the cylinders and combustion chambers the engine is equipped with piston cooling. It is also equipped with replaceable cylinder linings and valve seats to provide maximum durability and extended engine life. High fuel injection technology and filling with small internal losses contributes to excellent combustion and low fuel consumption, allowing low emissions, to ease of use of the engine contribute also easy accessible services and maintenance.

ALTERNATORS

The alternators are synchronous, three-phase, brushless, self-regulated, self-excited, self-ventilated and 4 pole. Insulation class H (temperature rise

according to class F or B on request). Tropical impregnation for salty-humid environment is possible on request. Automatic voltage regulation. Protection class IP21 or IP23 (other class on request).

BASE FRAME

Steel construction - monobloc. Anti-vibration mounting to eliminate the vibration. Powder coated with primer and cover color. The base frame is designed to enable simple lifting and moving the generating set.

FUEL TANK

The fuel tank is mounted on the inside of the base frame. Under the fuel tank, a collecting vessel is mounted, which prevents outpouring of any liquid from the generating set into the environment. Equipped with all necessary connectors and sensors. Standard autonomy of the tank is 8-10 hours at 75% load. Additional freestanding double wall tanks and automation for pumping fuel on demand.

HOUSING

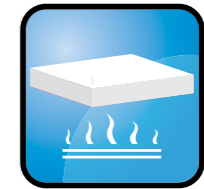
Sound-insulated housing, suitable for outdoor installation. Standard noise level of 72 dBA \pm 3 dB at a distance of 7 m (lower sound levels on request). 4 large doors for easy access to the genset for maintenance and servicing. Powder coated housing with primer and cover color RAL7035 (other colors upon request).

CONTROL PANELS

Manual – includes a manual control unit (push button / key start type), main circuit breaker, differential protection and all auxiliary controls and alarms.

Automatic – includes an automatic control unit that starts the genset in case of mains failure (it can be started manually too), main circuit breaker, differential protection and all auxiliary controls and alarms, button for emergency stop, changeover genset / mains (ATS) on request.

Synchronization – automatic control cabinet for synchronization more generating sets and / or main electricity network and parallel operation. Additional and special control and switching cabinets for genset on demand.



Heating of the fuel tank



Additional fuel tanks



Noise control absorber



Genset communication with control systems, mobile phone and e-mail



Automatic system for pumping fuel + pump



Service kit



Transport trailer



TV transmitter Nanos – LDE 450 V

Gensets (2 units) are located on the TV transmitter of National Television Slovenia on mountain Nanos. The power of each is 450 kVA. Special control cabinet allows synchronization between generating sets as well as the synchronization of the two generating sets with the main electrical grid. After the synchronization gensets and main electrical network can operate in long-term parallel operation. Gensets are built to the highest standards and all requirements of Television Slovenia (radio interference, electromagnetic compatibility, operating at an altitude of 1600 m).

Genset type

Series LDE V					50 Hz - 400/230 V 1500 rpm		Overall dimensions and weights - GenSet without housing		Overall dimensions and weights - GenSet with housing (72±3 dBA - 7m)	
Type	Engine	Cylinders	Volume (cm ³)	Fuel consumption 75% load - g/kWh	Standby power (kVA)	Prime power (kVA)	LxWxH (mm)	Weight (kg)	LxWxH (mm)	Weight (kg)
LDE 94 V	TAD 530 GE	4	4760	218	94	85	2500x1100x1530	1300	2500x1100x1860	1600
LDE 110 V	TAD 531 GE	4	4760	217	110	100	2500x1100x1530	1350	2500x1100x1860	1650
LDE 143 V	TAD 532 GE	4	4760	209	142	130	2500x1100x1530	1390	2500x1100x1860	1690
LDE 167 V	TAD 731 GE	6	7150	215	167	152	2750x1200x1530	1650	2750x1300x1860	2000
LDE 205 V	TAD 732 GE	6	7150	212	205	186	2750x1200x1700	1750	2750x1300x1860	2100
LDE 226 V	TAD 733 GE	6	7150	215	226	205	2750x1200x1700	1850	2750x1300x1860	2200
LDE 275 V	TAD 734 GE	6	7150	217	275	250	2950x1200x1750	2000	2950x1300x1860	2550
LDE 305 V	TAD 940 GE	6	9360	197	305	277	3300x1400x1850	2550	3300x1400x2300	3100
LDE 346 V	TAD 1341 GE	6	12780	194	346	315	3300x1400x1850	3150	3300x1400x2300	3700
LDE 358 V	TAD 941 GE	6	9360	200	358	326	3300x1400x1850	2550	3300x1400x2300	3100
LDE 387 V	TAD 1342 GE	6	12780	193	387	352	3300x1400x1850	3150	3300x1400x2300	3730
LDE 414 V	TAD 1343 GE	6	12780	192	414	378	3300x1400x1850	3200	3300x1400x2300	3750
LDE 452 V	TAD 1344 GE	6	12780	198	452	412	3300x1400x1850	3500	3300x1400x2300	4050
LDE 477 V	TAD 1345 GE	6	12780	197	477	451	3300x1400x1850	3600	3300x1400x2300	4150
LDE 506 V	TAD 1640 GE	6	16120	194	506	462	3600x1600x2150	3790	3600x1600x2450	4230
LDE 559 V	TAD 1641 GE	6	16120	195	559	509	3600x1600x2150	3850	3600x1600x2450	4300
LDE 630 V	TAD 1642 GE	6	16120	195	630	570	3600x1600x2150	3950	3600x1600x2450	4390
LDE 700 V	TWD 1643 GE	6	16120	196	700	630	4000x1900x2150	4160	4000x1900x2450	4900

All data in this catalogue are informative and are subject to changes without prior notice.

Warranty, service and maintenance

All our gensets have 12-month warranty. We offer fast and quality service, because we have properly trained service technicians and we use only original spare parts. We give guarantee even on our services and on spare parts.

