

Energetic independence



 **STUBELJ**

Series LDE I

Economical operation

Series LDE I



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.

IVECO ENGINES

Diesel engines, 4-stroke, direct injection, charging through the turbine and / or intercooled, suitable for continuous operation or standby operation. Benefits of Iveco engines are performance, respect for the environment, reduced operating costs and flexibility. They have excellent response to various types of electrical applications, providing high performance in all conditions and high power engines. Because of low emissions and low noise this engines are environmentally acceptable. Iveco engines boast low maintenance cost, low-cost continuous operation, long service intervals (600 h) and low fuel consumption and lubricating oil. They can be designed with the specific wishes of customers for various applications (operating at low temperatures, powered by various alternative fuels).

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



Faculty of Electrical Engineering – LDE 220 I

Genset in standby Stubelj LDE 220 at the Faculty of Electrical Engineering in Ljubljana. It is equipped with automatic control cabinet with power changeover genset / mains, the bypass switch, signaling to control voltage on grid 1, grid 2 and genset. Genset controls two separately powered networks and runs in the event of failure. With it is powered UPS system and computing faculty center. Genset, manufactured to high standards and user requirements - Faculty of Electrical Engineering, University of Ljubljana.

GenSet type

Series LDE I					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 80% load - g/kWh	Standby power (kVA)	Prime power (kVA)	LxWxH (mm)	Weight (kg)	LxWxH (mm)	Weight (kg)
LDE 33 I	F32 AM 1D	4	3200	225	33	30	1750x900x1180	800	1750x900x1500	950
LDE 44 I	F32 SM 1D	4	3200	221	44	40	2150x1100x1550	900	2150x1100x1800	1100
LDE 50 I	NEF N45 AM1A	4	4500	232	50	45	2150x1100x1550	950	2150x1100x1800	1150
LDE 55 I	F32 TM 1D	4	3200	211	55	50	2150x1100x1550	960	2150x1100x1800	1180
LDE 66 I	NEF N45 SM1A	4	4500	210	66	60	2150x1100x1550	1050	2150x1100x1800	1270
LDE 82 I	NEF N45 SM2A	4	4500	212	82	75	2150x1100x1550	1100	2150x1100x1800	1350
LDE 94 I	NEF N45TM1A	4	4500	204	94	85	2150x1100x1550	1150	2150x1100x1800	1400
LDE 110 I	NEF N45TM2A	4	4500	204	110	100	2150x1100x1550	1170	2150x1100x1800	1450
LDE 138 I	NEF N67 SM1	6	6700	214	138	125	2500x1150x1550	1380	2500x1150x1880	1700
LDE 143 I	NEF N67 TM2A	6	6700	213	143	130	2750x1300x1550	1500	2750x1300x1860	1750
LDE 176 I	NEF N67 TM3A	6	6700	214	176	160	2750x1300x1550	1600	2750x1300x1860	1850
LDE 220 I	NEF N67 TE2A	6	6700	207	220	200	2750x1300x1550	1650	2750x1300x1860	1900
LDE 300 I	CURSOR 87 TE1	6	8700	209	300	275	3100x1300x1800	2250	3300x1400x2300	2950
LDE 335 I	CURSOR 10 TE1	6	10300	198	335	300	3100x1300x1700	2300	3300x1400x2300	3000
LDE 385 I	CURSOR 13 TE2	6	12880	192	385	350	3100x1300x1700	2500	3300x1400x2300	3100
LDE 440 I	CURSOR 13 TE3	6	12880	204	440	400	3300x1400x2050	2650	3300x1400x2300	3250
LDE 800 I	VECTOR 8 TE2	8	20000	203	800	720	4000x1900x2100	4900	4400x2000x2550	5700

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.

