



nmp
Power Generation

MODEL : NL-77

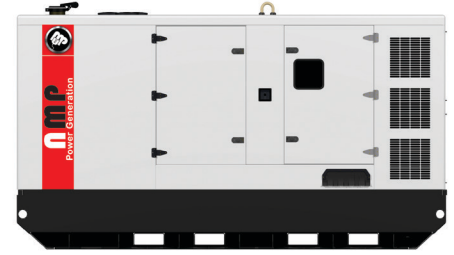
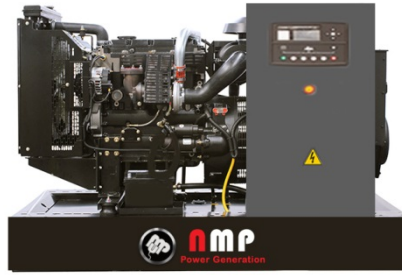


MODEL

NL-77

INDUSTRIAL RANGE

Powered by **Lovol**



Three Phase



50 Hz



Water Cooled



Diesel

NL-77

Generating Rates

Standby / اضطراری

Prime / دائم

	kVA	77	70	قدرت
Power	kW	61	54	
Current	Amp	110	100	جریان
Rated Speed	R.P.M	1.500		دور موتور
Voltage	V	400/230		ولتاژ خروجی
Rated at power factor	Cos Phi	0.8		ضریب قدرت

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance possibility
- Every generating set is subject to a comprehensive test program which includes full load testing, checking and provision of all control and safety shut down functions testing
- Fully engineered with a wide range of options and accessories (Canopy, sound proof canopy and on - road trailer)

✓ Ambient conditions of reference according to ISO 8528-1:2005

Normative: 1000 mbar, 25°C, 30% relative humidity.

✓ Emergency Standby Power (ESP):

The maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers.
The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

✓ Prime Power (PRP):

The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer.
The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.



Engine Specifications

Manufacturer	Lovol			برند موتور
Model	1004TG1			مدل موتور
No. of Cylinder	4			تعداد سیلندر
Type of Cylinder	Inline			آرایش سیلندر
No. of Cycle	4			تعداد سیکل (چرخه احتراق)
Aspiration Systems	Turbo Charged			سیستم هوا دهی
Total Displacement	3.99 L			حجم موتور
Bore & Stroke	100x127 mm			قطر سیلندر و کورس پیستون
Compression Ratio	17.5:1			نسبت تراکم
Governor Type	Mechanical			نوع گاورنر
Oil Capacity	9.00	L		ظرفیت کل روغن
Coolant Capacity	22.00	L		ظرفیت سیستم خنک کنندگی
Air Intake Engine	4.80	m ³ /min		حجم هوای ورودی به موتور جهت احتراق
Radiator Cooling Air	89.00	m ³ /min		حجم هوای عبوری از روی رادیاتور
Exhaust Gas Flow	13.10	m ³ /min		حجم هوای خروجی اگزوز موتور
Exhaust Gas Temperature	510.00	° C		دمای هوای خروجی اگزوز موتور
Start Voltage	12	V / D.C		ولتاژ استارت
Fuel Consumption Ltr/h	100 %	75 %	50%	مصرف سوخت لیتر بر ساعت
	19.80	11.00	6.50	
		25%	4.97	

Alternator Specifications

No. Phase	3	تعداد فاز
Power Factor	0.8 Lagging	ضریب قدرت
Rotary Speed	1500 R.P.M	سرعت چرخش روتور
Rated Voltage	380-415 V	ولتاژ نامی
No. of Poles	4	تعداد قطب
Rated of frequency	50 Hz	فرکانس نامی
Type of Excitation	Self-Excitation (PMG- Option)	نوع تحریک
No. of Bearing	1	تعداد برینگ
Class of temp rise	H	کلاس عایقی
Degree of Protection	IP 23	درجه حفاظت
Standard Produce	BS EN 60034	استاندارد تولید
Standard Produce	Star – Series	تیپ سیم پیچ
Voltage Regulator	A.V.R (Electronic)	تنظیم کننده جریان
Coupling	Flexible Disc	کوپلینگ

- Brushless, single bearing system, flexible disc, 4 poles
- Insulation class H
- IP21/IP22 is (Optional) Self-exciting and self-regulating
- Impregnation with tropicalized epoxy varnish
- Solid state Automatic Voltage Regulator
- Stator winding with 2/3 pitch for improved harmonics





Control Board Specifications			
Generator Reading	Voltage among phases	Counters	Total hour counter
	Voltage among neutral		Kilowatt meter
	Amperage		Starts valid counters
	Frequency	Communications	Maintenance
	Apparent power (kVA)		RS232
	Active power (kW)		Modbus
	Reactive power (kVAr)		CCLAN
Power factor	Software for PC		
Engine Reading	Coolant temperature	Alternator	J1939
	Oil pressure		High frequency
	Fuel level (%)	Protections	Low frequency
	Battery voltage		High voltage
	R.P.M.		Low voltage
Engine Protections	Battery charge alternator	Overload	
	High Water Temperature	Alarms history	
	Low Oil Pressure	Low Coolant Level	
	Unexpected shutdown	Overs peed	
	Stop failure	Under speed	
	Battery voltage failure	Start failure	
Battery charge alternator failure	Emergency Stop		

- Control supervision and protection panel is mounted on the Genset base frame
- The control panel varies depending on requirement.
- Emergency stop push button and fuses for control circuits
- Located at side of generating set with properly panel visibility.



Dimensions			
Open Type	Length	mm	1,970
	Height	mm	1,556
	Width	mm	950
	Weight	Kg	970
	Fuel Tank Capacity	L	150
Sound Attenuated (Canopy)	Length	mm	2,640
	Height	mm	1,650
	Width	mm	985
	Weight	Kg	1420
	Fuel Tank Capacity	L	150
	Sound Pressure Level	dB(A)@7m	78