# GNT SERIES GNT 630 & 730



231/400V - 50Hz & 277/480V - 60Hz





# **Features and Benefits**

- Half Century Experience in Generator Manufacturing
- Diesel Engines with Advanced Technology and Quality
- Alternators with Advanced Technology and Quality
- Control Panel Suitable for Flexible Application
- High Quality and Reliable Technology
- Patented Compact Designed and Soundproof Canopy
- Suitable for Heavy-Duty
- Durability
- Wide Range of Affordable Spare Parts

- Low Noise Level
- Low Exhaust Emission
- Low Operating Cost
- Low Fuel Consumption
- Low Oil Consumption
- Tropical 50°C Radiator
- •
- Fuel Filter with Water and Particle Separator
- First Class Product Support
- Global Technical Service and Maintenance Support

Generator General Information														
Generator	Frequency	Voltage	Power Factor	Speed		Diesel Engine			Alternat	or	Type of	Gen	erator Ou	tput
Model	Hz	V	CosQ	rpm	Brand	Model	Series	Brand	Model	Series	Operation	kVA	kW	Α
<b>GNT</b> 630	50	231/400	0,8	1500	I N	E790TDI	PII	G E N P	G	355S2	Stand By Prime Continuous	630,0 573,0 401,0	504,0 458,0 321,0	910,0 828,0 579,0
<b>GNT 7</b> 30	60	277/480	0,8	1800	E R	E1301DI	1211	O W E R	N P	355S1	Stand By Prime Continuous	730,0 663,6 464,5	584,0 530,9 371,6	1.054,9 959,0 671,3

# **INTER** Diesel Engine Technical Parameters and Matching Parameters

# **Diesel Engine Main Technical Parameters**

General		
Number of Cylinders		8
Configuration		V - Type
Aspiration		Turbocharged & Intercooled
Combustion System		Direct Injection
Compression Ratio		15,5:1
Bore	mm	128
Stroke	mm	155
Displacement	L	15,948
Governing Type		Electronic
Governing Class		G3
Rotation		Counterclockwise
Firing Order		1-5-7-2-6-3-4-8
Emission		Tier II
Moments of Rotation Inertia		
Engine	kg • m²	4,54
Flywheel	kg • m²	2,1
Performance Rating		
Speed Droop	%	≤0,5
Steady State Speed Band	%	≤0.5
Test Conditions		
Ambient Temperature	%	25
Atmospheric Pressure	kPa	100
Relative Humidity	RH (%)	30
Max. Operating Intake Resistance	kPa	<5
Exhaust Backpressure Limit	kPa	<10
Fuel Temperature (Fuel Inlet Pump)	°C	$38 \pm 2$
Filters		
Air Filter		Dry Type, Replaceable
Fuel Filter		With Water Seperator
Oil Filter		Element Type, Particulate Trap
Flywhell Housing and Flex Coupling		
Flywheel Housing	SAE (J620)	1
Flex Coupling Disc	Inch (")	14
Overall Dimensions		
Length *	mm	1745
Width	mm	1380
Height	mm	1400
Dry Weight	Kg	1400
* From front end of radiator to rear end of air filter		

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Radiator Type         50°C         Tropical           Total Coolant Capacity         L         80           Max. Perm. Coolant Outlet Temperature         °C         105           Max. Perm. Flow Resis. (Cool. System And Piping)         bar         0,5           Max. Temperature of Coolant Warning         °C         95           Max. Temperature of Coolant Shutdown         °C         98           Thermostat Operation Temperature - Initial Open         °C         68           Thermostat Operation Temperature - Full Open         °C         71           Delivery of Coolant Pump         m³/h         5,60           Min. Pressure Before Coolant Pump         bar         0,5           Radiator Face Area         m²         1,39           Rows         5           Matrix Density         Per / Inch         15,5           Material         Aluminum           Width of Matrix         mm         1162           Height of Matrix         mm         1196           Pressure Cap Setting         kPa         70
Max. Perm. Coolant Outlet Temperature         °C         105           Max. Perm. Flow Resis. (Cool. System And Piping)         bar         0,5           Max. Temperature of Coolant Warning         °C         95           Max. Temperature of Coolant Shutdown         °C         98           Thermostat Operation Temperature - Initial Open         °C         68           Thermostat Operation Temperature - Full Open         °C         71           Delivery of Coolant Pump         m³/h         5,60           Min. Pressure Before Coolant Pump         bar         0,5           Radiator Face Area         m²         1,39           Rows         5           Matrix Density         Per / Inch         15,5           Material         Aluminum           Width of Matrix         mm         1162           Height of Matrix         mm         1196
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Width of Matrix mm 1162 Height of Matrix mm 1196
Height of Matrix mm 1196
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Pressure Cap Setting kPa 70
Estimated Cooling Air Flow Reserve kPa 0,15
Engine Pre Heater Tube (with Circulation Pump) W 3000
Lubrication System
Total System L 28
Minimum Oil Level L 19
Nominal Motor Operating Temperature °C 40
Lubricating Oil Pressure (Rated Speed) bar 5
Relief Valve Opens kPa 200
Oil / Fuel Consumption Ratio % ≤0,5
Normal Oil Temperature °C 110
Electrical System
Voltage V 24
Starter kW 7
Alternator Output Ampers A 45
Alternator Output Voltage V 28
Batteries Capacity Ah 2X135
Fan
Diameter mm 900
Drive Ratio 1,15:1
Number of Blades 7
Material Plastic
Material Flasiic
Type

# GNT 630 & 730



231/400V - 50Hz & 277/480V - 60Hz

# **Diesel Engine Matching Parameters**

50 Hz @ 1500 r/min		Stand By	Prime
Gross Engine Power	kW	574,7	522,2
Net Engine Power	kW	552,1	501,6
Fan Power Consumption (Belt Pulley Driven)	kW	22,0	22,0
Other Power Loss	kW	2,0	1,5
Mean Effective Pressure	MPa	3,80	3,46
Intake Air Flow	m 3 / min	41,65	39,66
Exhaust Temperature Limit	°C	690	690
Exhaust Flow	m 3 / min	76,39	72,75
Boost Pressure Ratio		3,50	3,30
Mean Piston Speed	m/s	8,5	8,5
Cooling Fan Air Flow	m 3 / min	809,6	809,6
Typical Generator Output Power	kVA	630	573
Heat Rejection			
Energy in Fuel (Heat of Combustion)	kW	1493,5	1357,5
Gross Heat to Power	kW	597,4	542,8
Energy to Coolant and Lubricating Oil	kW	298,7	271,9
Heat Dissipation Capacity*	kW	105,1	94,8
Energy to Exhaust	kW	433,6	393,5
Heat to Radiation	kW	59,7	54,6
*Intake Intercooled System			

60 Hz @ 1800 r/min		Stand By	Prime
Gross Engine Power	kW	613,8	557,7
Net Engine Power	kW	589,6	535,7
Fan Power Consumption (Belt Pulley Driven)	kW	22,0	22,0
Other Power Loss	kW	2,0	1,5
Mean Effective Pressure	MPa	3,80	3,46
Intake Air Flow	m 3 / min	41,65	39,66
Exhaust Temperature Limit	°C	690	690
Exhaust Flow	m 3 / min	76,39	72,75
Boost Pressure Ratio		3,50	3,30
Mean Piston Speed	m/s	8,5	8,5
Cooling Fan Air Flow	m 3 / min	809,6	809,6
Typical Generator Output Power	kVA	693	630
Heat Rejection			
Energy in Fuel (Heat of Combustion)	kW	1495,6	1332,8
Gross Heat to Power	kW	597,4	516,0
Energy to Coolant and Lubricating Oil	kW	298,7	271,9
Heat Dissipation Capacity*	kW	104,0	94,8
Energy to Exhaust	kW	433,6	393,5
Heat to Radiation	kW	62,8	56,7
*Intake Intercooled System			

# **GENPOWER** Alternator Technical Parameters and Specifications

# **Alternator Technical Parameters**

Insulation Class		Н
Winding Pitch		2/3 - (N° 6)
Wires		12
Protection		IP 23
Altitude	m	1000
Overspeed	rpm	2250
Air Flow	m³/sec	1,035
Bearing Drive	N/A	-
Rotor Winding	100%	Copper

Field Control Cyatana		Calf Evaluad
Field Control System		Self Excited
A.V.R. Model	Standard	SX440
Voltage Regulation	%	± 1
Sustained Short-Circuit Current	10 sec	300% (3 IN)
Total Harmonic (*) TGH / THC	%	< 4
Wave Form :NEMA = TIF - (*)		< 50
Wave Form :I.E.C. = THF - (*)	%	< 2
Bearing Non - Drive	Bearing	6314-2RZ
Stator Winding	100%	Copper

Genpower sychron alternators are produced according to TSE 60034-1; IEC 60034-22; GB755; BS4999-5000; NEMA MG 1.22 standards

# **Alternator Specifications**

	50 Hz - 231/400V - Cos Q 0,8 - 1500 rpm											
Standard Using Al	Iternator		Optional Using Alternator									
Brand/Model	Genpower	355 <b>S</b> 2		Leroy Somer	TAL047E		Stamford	HC5E				
Duty			Contir	nuous		Stand By						
Ambient	C°		40°	°C		27°C						
Class/Temp. Rise	C°		H / 12	25° K			H / 163° K					
Series Star (V)	V	380/220	400/231	415/240	1 Phase	380/220	400/231	415/240	1 Phase			
Parallel Star (V)	V	190/110	200/115	208/120	220	190/110	200/115	208/120	220			
Series Delta (V)	V	220	230	240	230	220	230	240	230			
Output Power	kVA	573,0	573,0	594,0	-	630,0	630,0	653,0	-			
Output Power	kW	458,0	458,0	475,0		504,0	504,0	522,0	-			

	60 Hz - 277/480V - Cos Q 0,8 - 1800 rpm											
Standard Using A	lternator			Optional Using	Alternator							
Brand/Model	Genpower	355S1		Leroy Somer	TAL047E		Stamford	HC5E				
Duty			Contir	iuous		Stand By						
Ambient	C°		40°	°C			27	°C				
Class/Temp. Rise	C°		H / 12	5° K			H / 163° K					
Series Star (V)	V	416/240	440/254	480/277	1 Phase	416/240	440/254	480/277	1 Phase			
Parallel Star (V)	V	208/120	220/127	240/138	-	208/120	220/127	240/138	-			
Series Delta (V)	V	240	254	277	240	240	254	277	240			
Output Power	kVA	661,0	696,0	733,0	-	727,0	766,0	806,0	-			
Output Power	kW	528,8	556,8	586,4	-	581,6	612,8	644,8	-			

<sup>(\*)</sup> Total harmonic content line to line, at no load or full rated linear and balanced load





231/400V - 50Hz & 277/480V - 60Hz

# **Control Panel Specifications**

Powder Painted Steel Pannel with Lockable Door ATS (Automatic Transfer Panel) - Optional Control Module

Battery Charge Emergency Stop Button Backlit, 128x64 Pixels

GENPOWER/Fortrust JV

800 gr.

90% max

8 - 32 V

221mm x 156mm x 56,8mm

Control Relays Terminal Blocks Load Output Terminal

Working Period

System Protection MCBs Circuit Breaker - Optional LCD Screen

## **Control Module Technical Parameters**

Dimensions Weight Ambient Humidity DC Battery Supply Voltage Network Frequency Generator Voltage Measurement Current Transformer Secondary Charge Alternator Voltage Measurement Communication Interface

5 - 99,9 Hz 3 - 300 V 5A 8 - 32 V RS-232 Generator Contactor Relay Output 5A & 250V Solenoid Transistor Outputs 1A with DC Supply Configurable-3 Transistor Outputs 1A with DC Supply **Control Module Functions** 

6120 D Version Protection Class IP65 From the Front 2000 Meters Above Sea Level **Environmental Conditions** Ambient Temperature -20 ° C to + 70 ° C Battery Voltage Measurement 8 - 32 V Mains Voltage Measurement 3 - 300 V Phase-Neutral, 5 - 99.9 Hz Generator Frequency 5 - 99 9 Hz

210mA & 12V. 105mA & 24V Nominal 2.5W Charge Alternator Excitation Analog Sender Measurement 0 - 1300ohm Mains Contactor Relay Output 5A & 250V 1A with DC Supply Start Transistor Outputs Configurable-4 Transistor Outputs 1A with DC Supply

Mains Voltage Level Control Network Frequency Level Control Engine Operating Option Control Engine Stop Option Control Engine Speed (RPM) Level Control Battery Voltage Options Control Check Engine Maintenance Times Communication Interfaces GPRS, GSM

Voltage

Generator Voltage Level Control Generator Frequency Level Control Generator Current Level Control Generator Power Level Control Generator Work Schedule and Timing Control Oil Pressure Controllers Control

Configurable Analog Inputs and Outputs Keeping Error Records of Past Events Configurable Programmable Digital Inputs and Outputs

Current and Frequency

3 phase Generator Protections

- High / Low Voltage - High / Low Frequency - Current / Voltage Asymmetry - Overcurrent / Overload Overheat Control

1 Phase or 3 Phase, Phase Selection Parameter Setting via Control Module

Phase Sequence

3 phase AMF Function

Continuous

- High / Low Frequency - High / Low Voltage

- High / Low Water Temperature

- High / Low Load Mains, Generator ATS control Network, Voltage, Frequency Display Parameter Setting via Computer

Hours of Operation Earting

Charge Alternator Error

Maintenance Time Alarm

Unbalanced Load

Alarm Horn

Heater Tube Thermostat Control Modbus and SNMP Working Hour Ground Leakage Analog Modem

Ethernet, USB, RS232, RS485 Selectable Protection Alarm / Shutdown

Battery Voltage Oil Pressure

# **Control Module Alerts**

Emergency Stop Malfunction High Generator Voltage Low Generator Frequency Low Load

Over Current Unbalanced Current Low Generator Voltage High Generator Frequency Phase Sequence Error

Overload

Low Water Level (Optional) Low Oil Pressure

Low Water Temperature Heat Sensor Broken Reverse Power Start Error Stop Error Magnetic Pickup Error

Low Speed High Speed Broken Oil Sensor Cable High Oil Temperature (Optional) Low Fuel Level (Optional) High Battery Voltage Low Battery Voltage High Water Temperature Electronic Canbus Errors (ECU)

# Sound Proof Canopy and Base Frame (Chassis) Specifications

Special, Registered GENPOWER Design and Color A1 Quality DKP / HRU /Galvanized Steel Sensitive Twist on Automatic Press Brake Delicate Cut on Automatic Punch and Laser Bench Sensitive Welding on Robotic Welding Bench

Chemical Cleaning Nano Technology Before Painting

Robotic Painting with Electrostatic Powder Paint Drying and Stabilizing on 200°C Ovens 1500 Hour Salt Test

Glasswool Isolation, A1 Class Material -50/+500°C Special Covering Over Glass Wool Best Sound Level (in dBA)

Temperature Tests Cable Exit Connectors and Glands Emergency Stop Button Fuel Level Gauge Fuel Drain Cap

Fuel Inlet and Return Records Impermeability Test for Fuel Tank Vacummed Rubber Mounted High Quality Weatherstrips High Quality Shock Absorbers Fuel Filling Cap (with ventilation)

Lifting and Carrying Equipments Internal Exhaust Mufflers (Silencers) External Exhaust Mufflers (Silencers) Radiator Water Filling Cap Daily Fuel Tank External Fuel Tank

# Special Products / Non - Standardized

Synchronised Systems Scada Systems Mobile Systems Light Towers Ground Power Unit Generators Generators - with Trailer Medium Voltage - MV IP44-IP54 Class Generators Welding Machines Natural Gas Generator

DC Generators High Voltage - HV Power Plants Trigeneration Systems Biogas Generator

High Frequency Generators Variable Speed Generators Super Silent Canopy Cogeneration Systems LPG Generator

TS EN ISO 2409 Certificate

Marine Generators **Dual Generators** Automatic Voltage Stabilizers Electrical and Diesel Forklift HFO Generato

# **Quality Documents & Certificates**

Trademark Registration Certificate Capacity Report (32400 Units / Year) Made in Turkey Certificate- For Generator/1-5000 kVA Made in Turkey Certificate-For Alternator/1-5000kVA Made in Turkey Certificate- For Engine/1-5000 kW Certificate of Competency for After Sales Services 2014/30/EU Electromagnetic Compatibility Directive CE Certificate - 2000/14/AT - 2000/14 EC (CE 2195)

Industrial Registry Certificate Certificate of Manufacturing Competence TSE- Service Adequacy Certificate ISO 9001 - 2015 Certificate ISO 14001 - 2015 Certificate OHSAS 18001 - 2007 Certificate 2006/42/EC Machinery Directive Coatchem-Türkak 1500 Hours Corrosion Durability Test Certificate

TSE 8528 - 4 Certificate TSE 8528 - 5 Certificate TSE 8528 - 8 Certificate AB-0547-T Certificate EAC - GOST Certificate/ Diesel Generator EAC - GOST Certificate/ Gasoline Generator CE Certificate - EN ISO 17050-1,2004

TS EN ISO 4628-3 Certificate TS EN ISO 4628-4 Certificate TS EN ISO 4628-5 Certificate TS EN ISO 4628-8 Certificate TS EN ISO 9227 Certificate TS 9620 EN ISO 4628-2 Certificate TS EN 60034 - 1 Certificate

EN ISO 12100:2010 Certificate EN ISO 13857:2008 Certificate EN ISO 14120:2015 Certificate EN 349:1993+A1:2008 Certificate EN 60204-1,2018 Certificate EN 61000-6-2,2019 Certificate EN 61000-6-4.2007/A1:2011 Certificate

EN ISO 8528-13.2016 Certificate

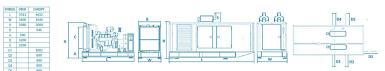


231/400V - 50Hz & 277/480V - 60Hz

# **Generator Dimensions**

### Values **Open Type Generator Canopy Type Generator** Width 1646 1400 mm 4632 3311 Length mm 2641 Height 1980 mm Weight (Net) 4240 3386 Kq Fuel Tank Capacity 400

# **Generator Technical Drawings**



# **Diesel Engine and Genset Rating Classifications**

The below ratings represent the engine performance capabilities to conditions specified in TS ISO 8528/1, 8528-5, 8528-8, BS5000, ISO 3046/1:1986, NEMA MG-1.22.1, BS 5514/1.

### STAND BY POWER RATING (ESP)

ESP is applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. Under no condition is an engine allowed to operate in parallel with the public utility at the Stand By Power rating. This rating should be applied where reliable utility power is available. A Stand By rated engine should be sized for a maximum of an 70% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Stand By Power rating. Stand By ratings should never be applied except in true emergency power outages. Negotiated power outages contracted with a utility company are not considered an emergency.

## PRIME POWER RATING (PRP):

Applicable for supplying electric power in lieu of commercially purchased power. Prime Power applications must be in the form of one of the following two categories:

# UNLIMITED TIME RUNNING PRIME POWER (ULTP):

PRP (Prime Power) is available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the Prime Power rating during any operating period of 250 hours. The total operating time at 100% Prime Power shall not exceed 500 hours per year. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year.

# LIMITED TIME RUNNING PRIME POWER (LTP):

LTP (Limited Time Prime Power) is available for a limited number of hours in a nonvariable load application. It is intended for use in situations where power outages are contracted, such as in utility power curtailment. Engines may be operated in parallel to the public utility up to 750 hours per year at power levels never to exceed the Prime Power rating. The customer should be aware, however, that the life of any engine will be reduced by this constant high load operation. Any operation exceeding 750 hours per year at the Prime Power rating should use the Continuous Power rating.

# **CONTINUOUS POWER RATING (COP):**

COP is the power that the engine can continue to use under the prescribed speed and the specified environment condition in the normal maintenance period stipulated in the manufacturing plant. And Continuous Power is applicable for supplying utility power at a constant 100% load for an unlimited number of hours per year. No overload capability is available for this rating.

# PAY ATTENTION to the points below in picking and using the generator

- \* Generators can work on Continuous Power at 70% of Prime power value if only all maintenances are done on time with original spare parts and high quality oils that manufacturer advice
- \* Generators should not operate below 50% of Prime Power value. In such a case, the engine will burn excessive oil and eventually have irreparable damage
- \* If your need is 1000 kVA or above, you should prefer Synchronic Systems with 2-3 generators with failure back up and simultaneous aging.
- \* These points will provide advantage for you with purchasing and operating the generator.

# INTER Diesel Engine Power Ratings - Fuel Consumption - Oil Recommendation and Oil Grades

	INTER Diesel Engine Power Ratings											
Engine Model	E7901	'DI	Engine Family ID25 Engine		Engine Series	F	ווי					
0		Tymical Canara	tor Output (Not)		Engine	Power						
Speed rpm	Type of Operation	Typical Generator Output (Net		Gr	oss	Net						
ipiii		kVA	kWe	kWm	Нр	kWm	Нр					
1500	Stand By (Maximum)	630,0	504,0	558,0	748,0	536,0	719,0					
1500	Prime	573,0	458,0	507,0	680,0	487,0	654,0					
1800	Stand By (Maximum)	756,0	604,8	669,6	897,6	643,2	862,8					
1800	Prime	687,6	549,6	608,4	816,0	584,4	784,8					

Generator powers are typical and are based on an average alternator efficiency and a power factor (Cos. Q) of 0.8

Fuel Consumption										
Percent of Prime power	1500	rpm	1800 rpm							
reitent of Fillie power	g/kWh	l/hr	g/kWh	l/hr						
110%	200	130,7	200,0	143,7						
100%	196	116,3	196,0	128,0						
75%	196	87,3	196,0	96,0						
50%	207,0	61,4	207,0	67,6						

# Note:The density of diesel is 0.835 kg/L

Fuel specification: BS 2869: Part 2 1998 Class A2 or (DIN EN 590) ASTM D975 D2 Diesel. The fuel must be clean and without water)

# SAE GRADES For Engine Oils Recommended in Relation with the Outside Temperature °C -35 -30 -25 -20 -15 -10 -5 0 +5 +10 +15 +20 +25 +30 +35 +40 +45 +50 SAE 10W SAE 20W SAE 30 SAE 40 SAE 10W-40 SAE 10W-40 SAE 10W-40 Mineral Base SAE 5W-30 Synthetic Base SAE 5W-30 Synthetic Base SAE 5W-30 Synthetic Base SAE 0W-30 Synthetic Base SAE 0W-30 Synthetic Base

# Why You Should Buy **GENPOWER?**

# Only because it is the biggest generator factory in the World? NO!

- \* It is one of the most trustworthy and distinguished generator manufacturers in the world with its almost half century experience in the field.
- \* It has interiorized the strategy of unconditional customer satisfaction and has been working with this work ethic together with its whole crew.
- \* Customers and end users get their moneys' worth and more with every penny.
- \* It has become a big family with customers and users who receive durable, long-lasting and high quality products.
- \* It has been appreciated many times by customers and suppliers about the investments that have been made for quality enhancement.
- \* Both its suppliers and customers always know GENPOWER is and will always be there for them. GENPOWER on their side in bad and good days.
- \* In order not to harm brand reputation and recognition, each day, they work harder than the day before.
- \* It continues its business only with the suppliers, customers, dealers and technical services that also embrace the same mind set and work ethics.
- \* It proves its loyalty for quality and customer satisfaction with its mottos "Your power is the core of our business" and "nothing will be left unfinished"
- \* The specifications and/or modifications you can receive with extra costs by other manufacturers are included in standard production in GENPOWER
- \* When you purchase GENPOWER products, you are not a customer or a buyer but GENPOWER perceives and accepts you as a valuable member of its continuously growing family.

# These are why you should buy from **GENPOWER**...





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