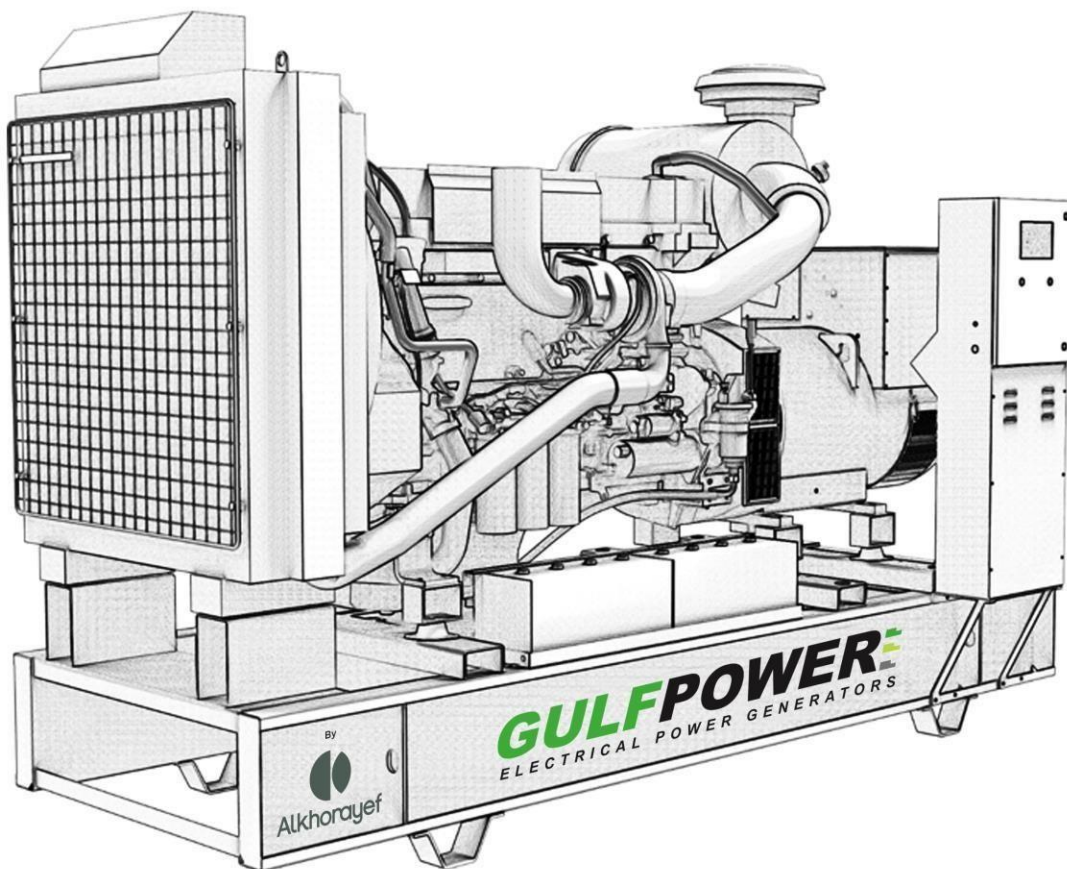




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Quality  
ISO 9001



## GPV0770-50

	Standby kVA	Standby kW	Prime kVA	Prime kW
480V	770	616	700	560
440V	770	616	700	560
380V	770	616	700	560
220V	770	616	700	560



## Standard Features

- **Single Source Responsibility**  
Alkhorayef Co. provides one-source responsibility for the Diesel Generator Sets and accessories
- **Reliability**  
We provide powerful and reliable diesel generator sets with economical fuel consumption
- **Durability**  
Rugged 4-cycle industrial diesel engine delivers reliable power, low emissions and fast response to load changes
- **Ease of Installation**  
Diesel Generator Sets are designed for the easiest, fastest and economical installation
- **Comprehensive Warranty**  
Diesel Generator Sets are backed up by 2 years warranty for standby application and 1 year prime application. Please see manufacturer's warranty statement.

## Ratings Definition

### Emergency standby power (ESP)

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

### Prime power (PRP)

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.



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**Application Data**

## ENGINE SPECIFICATION

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Engine Manufacturer	Volvo
Engine Model	TWD1645GE
Engine Speed	1500 RPM
Engine Type	4-Cycle; In-line; 6-Cylinder Diesel
Aspiration	Turbocharged and Charge water Cooled
Bore and Stroke	144 x 165 mm (5.67 x 6.50) inch
Displacement	983.9 inch <sup>3</sup> (16.12 litre)
Compression Ratio	16.8 : 1
Governor: type, make/model	EMS II
Frequency regulation, Steady state	±0.25%
Wet Weight – Fan to Flywheel Engine (Approximate)	6100 lb (2767) kg

## ALTERNATOR SPECIFICATION

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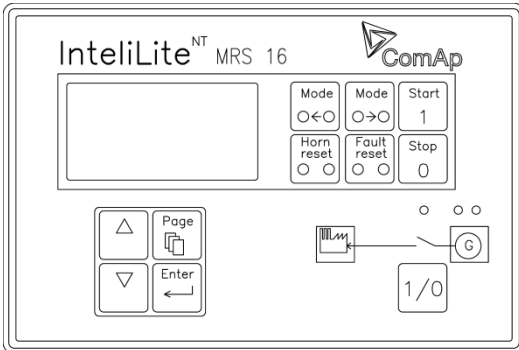
Insulation System	Class H
Protection	IP23
Rated Power Factor	0.8
Stator Winding	Double Layer Concentric
Winding Pitch	Two Third
Maximum Over speed	2250 RPM

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting
- PMG Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds
- Self-ventilated and drip proof construction
- Vacuum-impregnated windings with fungus-resistant epoxy varnish for dependability and long life
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor & Fast-Response



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## CONTROL PANEL

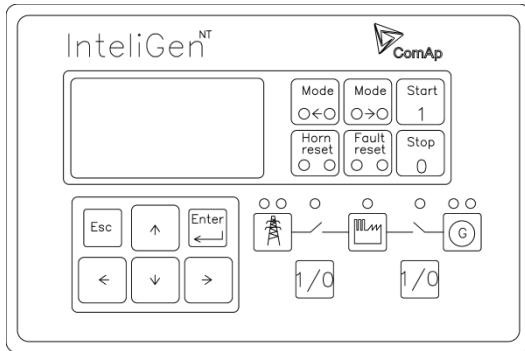


### IntelliLite<sup>NT</sup>

These controllers are easy to use and feature an intuitive user interface with graphic display. The built-in event and performance log with backed-up real time clock makes troubleshooting even simpler.

- 3 phase AMF Function
- 3 phase generator protections
- True RMS current measurement
- Power Measurements
- Event Performance log + RTC
- User Interface
- Communication Interfaces

Please refer to Data Sheet for details

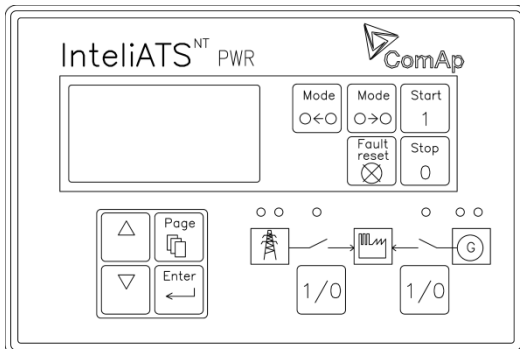


### IntelliGen<sup>NT</sup>

IntelliGen is a comprehensive controller for both single and multiple gen-sets operating in standby or parallel modes.

- AMF Function
- Automatic synchronizing and Power control
- Base load Import/ Export
- Peak shaving
- Integrated PLC programmable functions
- Interface to remote display unit
- Event based history

Please refer to Data sheet for details.



### IntelliATS<sup>NT</sup>

These controllers are designed to monitor the incoming AC mains supply (1 or 3 phases) for under voltage, over voltage, under frequency, over frequency and voltage unbalance.

- 3 phase AMF Function
- 3 phase generator protections
- True RMS current measurement
- Power Measurements
- Event Performance log + RTC
- User Interface
- Inputs and outputs
- Communication Interfaces

Please refer to Data sheet for details.



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## FUEL CONSUMPTION

%	Output Power			FUEL CONSUMPTION		
	kWe	bhp	Kg/kWm.h	Lb/bhp.h	Litre/ hour	US Gal/ hr
<b>STANDBY POWER</b>						
100	675	919	0.193	0.313	153	40
<b>PRIME POWER</b>						
<b>100</b>	616	838	0.191	0.309	138	37
<b>75</b>	462	628.5	0.196	0.317	107	28
<b>50</b>	308	419	0.206	0.335	75	20
<b>25</b>	154	209.5	0.218	0.353	39	10