

FI1270W-TO

POWERED BY: IVECO FPT - WEG ALTERNATOR



STANDBY POWER			PRIME POWER				
1270	lavo	1016	kW	1155	kva	924	kW
	kva	1833	А			1666	А
Standard Voltage		400/230 VAC					
Rated at power factor	Cos Ø	0,8					

1500 Hz 50 3 Three phase	Water cooled 🥼 Soundproof 🐼 Diesel			
Standby Rating (ESP)	Prime Rating (PRP)			
According to ISO 8528-1:2005, Emergency standby power is	According to ISO 8528-1:2005, Prime power is the maximum			

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 outageor under test conditions for up to 200h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70% of the ESP. According to ISO 8526-12005, Prime power is 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 24h of operation shall not exceed 70% of the PRP.

G2 class load acceptance in accordance with ISO 8528-5:2005

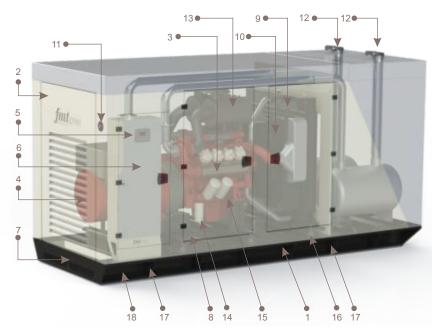
DIMENSION / WEIGHT / FUEL TANK Weight (kg) **Dimension** $W \times L \times H$ (mm) Tank Capacity (It) TBA 2000 Canopy 1700 x 9500 x 2500 **Open Type** TBA TBA TBA NOTE: For reference only, do not use for installation design. Please contact your local dealer for exact weight and dim 测 NOISE LEVEL db(A) 7mt@85-90db(A) TBA: To Be Asked, N/A: Not Applicable

for the second s

WE HAVE THE POWER 1

STURDY SERIES W

POWERED BY: IVECO FPT - WEG ALTERNATOR



Ľ	Low fuel consumption	ĺ	High efficiency		
	Easy lift		(())) Low noise		
1	Base Frame	10	Cooling fun		
2	Canopy		Emergency stop button		
3	Engine	12	Exhaust Outlet		
4	Alternator		Air Filter		
5	Control Panel		Fuel filter		
6	Connection Box		Oil Filter		
7	Fuel Tank		Vibration Isolators		
8	Battery		Lifting Lug		
9	Radiator	18	Earthing Point		
*Image	e for guidance purposes				

🕙 FEATURES

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- · Galvanized steel that provides extra strength, durability and protection
- Tightly structure, excellent design
- · Easy access to serviceable parts
- Double swinging doors for ease of service
- · Doors have high quality gaskets to avoid leakage of sound
- · LCD display shows system status and setup information
- · Adequate ventilation to meet air requirement for combustion and heat removal

GENSET STANDARD SPECIFICATION

- Diesel engine
- Water cooled
- Radiator with mechanical fan
- ATS automatic transfer switch 4P
- Protective grille for rotating and hot parts
- Electric starter and charge alternator
- Engine coolant heater
- Base frame with integrated fuel tank
- Antivibration shock absorbers
- Flexible fuel connection hoses
- Single bearing, class H alternator
- Industrial exhaust silencer and steel bellows supplied separately
- Static battery charger
- Starting battery (with lead acid) including rack and cables
- Battery isolator
- Manual for application and installation

SAFETY FEATURES

HIGH WATER TEMPERATURE

LOW LUBE OIL PRESSURE

EMERGENCY STOP PUSH-BUTTON

PROTECTIVE EARTH POINT

V 12 YEARS WARRANTY..! 2 YEARS WARRANTY..!





STURDY SERIES W

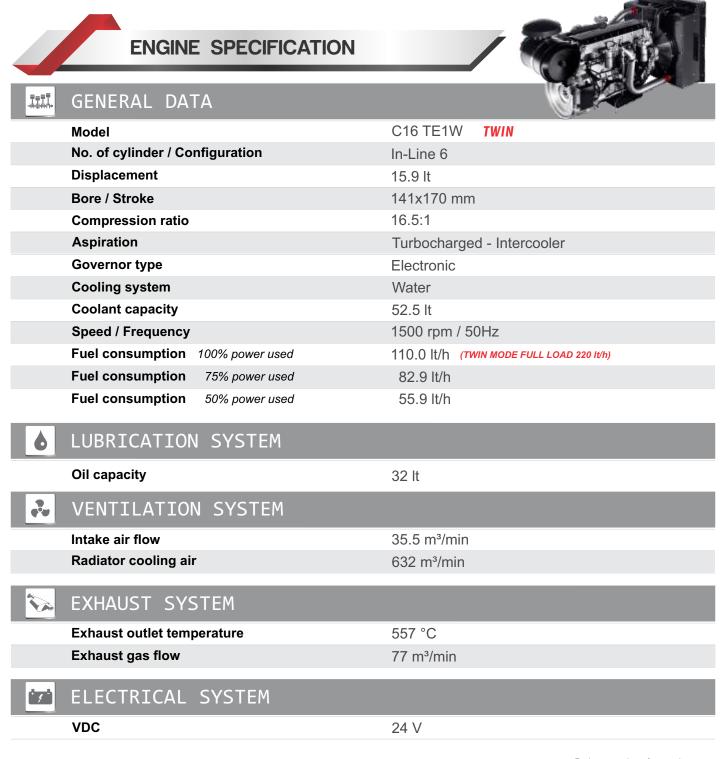
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The diesel engine is the most important part of the genset. Is the prime mover that drives the generator (alternator) to produce electricity. All diesel engines are similar to each other in the concept but they different in many aspects such as the number of cylinders, if the cylinders are inline or Vtype, how the fuel is delivered to the cylinders, governing system, cooling system, air charging system, air intake system. All these details affect the decision of which engine to use and which performance is expected. Engines are rated in KW or HP. Their performance is measured in their fuel consumption in filters or gallons per KWh produced, its thermal effciency, noise level, lube oil consumption and exhaust gas emissions.



Fuel consumption refers to prime power



STURDY SERIES W

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SELF EXCITED STRONG ROTOR Isolated Stator

WEG alternator has been designed for three phase and mono phase. They are brushless type and are controlled by AVR card. The windings have been industrially produced to give maximum efficiency in the production of energy. Throughout the AVR card system the output voltage is always stable. The smart AVR is a professional controller than enables the whole operation of excitement. **WEG alternator** is protected by a special cabin that enables the electrical connections.

ALTERNATOR SPECIFICATION



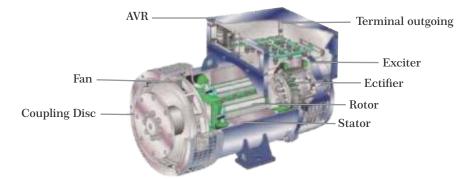
GENERAL DATA

Model	AG10-315MI15AI TWIN
No. of Phase	3
Power Factor	0.8
No of Bearing	SINGLE
No of Poles	4
No of Leads	12
Insulations Class	Н
Voltage Regulation (Steady State)	± 1%
Degree of Protection	IP 23
Excitation System	Self excited, AVR, Brushless
Connection System	STAR
Frequency	50 Hz
Voltage Output	400/230 VAC
Rated Power (standby)	635 x2 = 1270 kVA
Efficiency	93.7 %



Alternator Structure

WE HAVE THE POWER 4





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FI1270W-TO

control panel

SYNCHRONIZE SYSTEM

AMF AUTOMATIC MAINS FAILURE

fmt control panel

GENA

GENA is a next generation genset controller combining multi-functionality and wide communication capabilities together with a reliable and low-cost design. The same controller provides synchronization, load share, AMF, ATS, Remote Start, Engine Control and Remote Display Panel functionalities. The module comes ready for remote monitoring over GSM or Ethernet with plua-in communication modules. Various plua-in modules provide unlimited expansion capabilities allowing to meet any special requirement. The unit complies and mostly exceeds world's tightest safety, vibration and environmental standards for the industrial category. Software features are complete with easy firmware upgrade process through USB port. The Windows based PC software allows monitoring and programming through USB, RS-485, Ethernet and GPRS.

The Rainbow Scada web monitoring service allows monitoring and control of an unlimited number of gensets through any web browser.

fmt control panel

FSYNCH-7

The FSYNCH-7 is a next generation synchronizing genset controller combining multi-functionality and wide communication capabilities together with a reliable and low cost design. The unit offers auto-genset learning capability, a first in the industry. The multi-functionality of the unit allows it to be a genset or mains synchronizer, even a parallel to mains controller with soft transfer in both directions. The unit is available with 4.3"TFT color display or 128x64 pixels B/W display. The unit complies and mostly exceeds world's tightest safety, EMC, vibration and environmental standards for the industrial category. Software features are complete with easy firmware upgrade process through USB port. The Windows based PC software allows monitoring and programming through USB, RS-485, Ethernet and GPRS. Scada web monitoring service allows monitoring and control of an unlimited number of gensets through any web browser.

datasheet

3P5-V400-FSYNCH-7

🏷 ComAp

InteliGen 200

The new ComAp InteliGen 200 introduces a new era in parallel genset control. The power and reliability of InteliGen, combined with the design and flexibility of the InteliLite gives you the best paralleling controller ComAp have ever made. The InteliGen 200 allows you to choose the configuration that best suits your application. Add more inputs and outputs, add GPS or 4G/LTE communications - it's up to you. Configuration and monitoring is supported by InteliConfig - a new version of ComAp's PC software offering the possibility to control and monitor either one, or multiple gen-sets. Thanks to manuals incorporated directly into InteliConfig and a context sensitive hint feature, customers have always help at hand. PDF

3P5-V400-Cl200

DOWNLOAD

3P5-V400-DSE8610

DSE8610

The DSE8610 MKII is a marketleading Synchronising Auto Start Control Module suitable for use in a multi-generator loadshare system, designed to synchronise up to 32 generators including electronic and non-electronic engines. The DSE8610 MKII monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault conditions. System alarms are annunciated on the LCD screen (multiple language options available), illuminated LED and audible sounder. The event log records 250 events to facilitate easy maintenance, and an extensive number of fixed and flexible monitoring, metering and protection features are included. DOWNLOAD datasheet PDF

SMART LOGIC



3P5-V400-GENA

datasheet



STANDARD

OPTIONAL



OPTIONAL



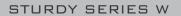
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FULL PROTECTION

SUPER CONTROL





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BUTTON	FUNCTION DESCRIPTION GENSET So GEN-A
*	Selects TEST mode The genset runs and takes the load
	Selects MANUAL mode The RUN push button is enabled. The genset will run when RUN mode is selected. It can be stopped anytime by depressing the OFF button
	Selects RUN mode Runs the genset off load. Applicable only in MANUAL mode
	Selects AUTO mode The genset runs when necessary and takes the load
	Selects OFF mode The genset stops after cooldown. If depressed again, the genset will immediately stop
V	Selects next display screen in the same display group LAMP TEST when held pressed
<	Selects previous display group
	Selects next display group
	Selects previous display screen in the same display group Resets the ALARM RELAY
1	Manual MAINS CONTACTOR (or Busbar contactor) control in RUN mode
	Manual GENSET CONTACTOR (or Busbar contactor) control in RUN mode
	When held pressed for 5 seconds, enters PROGRAMMING mode
•••	Makes factory reset. Please review chapter RESETTING TO FACTORY DEFAULTS for more details.
	When held pressed for 5 seconds, resets service request counters. Please review chapter SERVICE REQUEST ALARM for more details

HIGH TECHNOLOGY FOR EVERYONE

GEN-A

BOTH AMF AND SYNCHRONIZING
 SAME UNIT FOR ALL FUNCTIONS

 INTERNET BASED
 MULTI-PROTOCOL

 FLEXIBLE WITH PLUG-IN MODULES

 AUTO LEARNING

FEATURES

· Diesel and gas genset support

400 event logs, full snapshot All parameters front panel editable

3 level configuration password

• 128x64 graphical LCD display

Downloadable languages

• Waveform display of V & I

· Harmonic analysis of V & I

· Allows closed transfers

Synchroscope & check synch

• 16Amp MCB & GCB outputs

8 configurable digital inputs

• 8 configurable digital outputs

• 7 configurable analog inputs

• Both CANBUS-J1939 & MPU

3 configurable service alarms

· 6xCT, true mains metering

· Supports up to 48 gensets

· Automatic learning/self adjust

• Direct governor & AVR control

• True soft transfer in both ways

· Peak Lopping / peak shaving

· Mains de-coupling protection

• R.O.C.O.F protection

Vector shift protection

Reverse power protection

Smart load management

· Smart genset sequencing

Run/stop priority support

Base load (power export)Unmanaged distributed power

· Equal aging of gensets

export support

· Over/under freq. Protection

Over/under voltage protection

Voltage and phase matching

kW & kVAr load sharing

PLC functions

Multiple topologies

Outputs expandable to 40

· Inputs expandable to 40

· 400Hz operation support

- AVR & GOV droop support
- Dead bus sensing
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
 Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Contactor & MCB drive
- Battery back-up real time clock
- Idle speed control
 - Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
 Modem & ethernet diagnostics
- Configurable through USB, RS-485, Ethernet and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring ethernet & GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (USB&RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with standard gasket



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PLUG-IN MODULES

- · 2G GSM Modem
- · 3G GSM Modem
- · 4G GSM Mode
- Wi-Fi (802.11 b/q/n)
- Ethernet IO/IOO Mbits
- USB Host
- RS-232 (isolated)
- RS-485 (isolated)
- Synchro/LoadShare Module
- · 3x AC Current Inputs
- 3x Analog Inputs

FUNCTIONALITIES

- Multi genset synch & load share
- Single genset parallel with mains
- AMF unit (uninterrupted transfer)
- ATS unit (uninterrupted transfer)
- Remote start controller
- · Manual start controller
- Engine controller
- · Remote display panel

COMMUNICATIONS

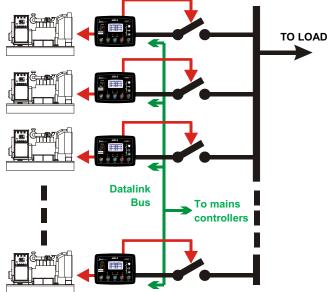
- Central Monitoring
- · Embedded Web Server USB
- GPS (geo-location)
- SMS
- · E-mail Modbus
- Modbus TCP/IP
- · SNMP I.O with trap
- HTML
- · UDP
- SNTP

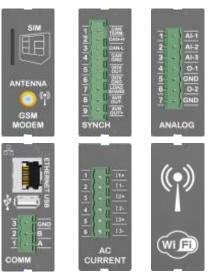


Backpanel view

MULTI GENSET SYNCHRONIZATION

Up to 48 gensets may be paralleled on the same busbar. Smart load management is a standard feature.

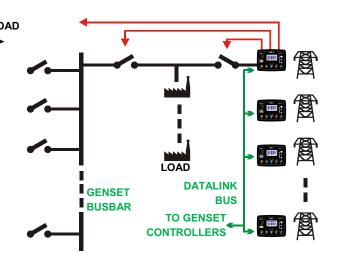




Plug-in modules

MAINS SYNCHRONIZATION

Up to 16 mains controller per system are supported. Mains controllers provide the REMOTE START signal and handle synchronization of the complete genset system with mains.



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STURDY SERIES W

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TECHNICAL SPECIFICATIONS

Alternator frequency: 0-600 Hz.

Mains frequency: 0-600 Hz.

Mains voltage: 0 to 300 V-AC (Ph-N)

DC Supply Range: 8.0 to 36.0 V-DC.

Digital inputs: input voltage 0 to 36 V-DC. Analog input range: 0-5000 ohms.

V-A-cos Accuracy: 0.5% + 1 digit kW-kVA-kVAr Accuracy: 1.0% + 1 digit Current consumption: 500 mA-DC max.

Charge Alternator Excitation: 2W. Display Screen: 2.9", 128x64 pixels Ethernet Port: 10/100 Mbits USB Device: USB 2.0 Full speed USB Host: USB 2.0 Full speed

Alternator voltage: 0 to 300 V-AC (Ph-N)

Topology: 1-2-3 phases, with or without neutral

Current Inputs: from current transformers. ../5A or ../1A.

Mains and genset contactor outputs: 16Amps@250V DC Outputs: Protected mosfet semiconductor outputs, rated 1Amp@28V-DC Cranking dropouts: survives 0V for 100ms. Magnetic pickup voltage: 0.5 to 50Vpk. Magnetic pickup frequency: 0 to 20000 Hz.

RS-485 Port: selectable baud rate (2400-115200baud) RS-232 Port: selectable baud rate (2400-115200baud) Operating temperature: -20°C to 70°C (-4 to +158 °F) Storage temperature: -40°C to 80°C (-40 to +176°F) Maximum humidity: 95% non-condensing.

Panel Cut-out Dimensions: 176 x 121 mm minimum.

Case Material: High Temperature, non-flammable ABS/PC

Installation: Flat surface mounting on a Type 1 enclosure. Rear retaining plastic brackets.

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LOAD L1 L2 L3 ALTERNATOR MAINS L10--0 L1 L2 ° • L2 L30 o L3 NO Ν GC мс IP Protection: IP65 from front panel, IP30 from the rear (with gasket) S

Battery Negative must be grounded

*1 Connect to the engine body, close to the senders *2 Ground from one end only

CONFORMITY

Weight: 500 g (approx.)

EU Directives Conformity -2014/35/EC (low voltage) -2014/30/EC (electro-magnetic compatibility)

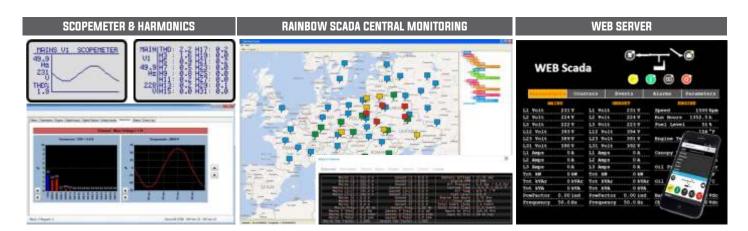
UL & CSA Compatibility:

• UL 6200, Controls for Stationary Engine Driven Assemblies (File# - 20140725-E314374) • CAN/CSA C22.2 No. 14-13 - Industrial Control Equipment

Norms of reference:

EN 61010 (safety requirements) EN 61326 (EMC requirements)

Dimensions: 211 x 162 x 42mm (WxHxD)



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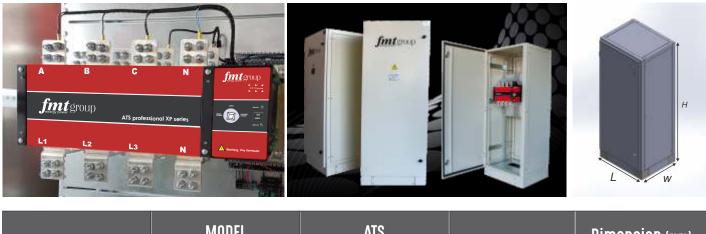
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An ATS is a device that interfaces with a generator and the yours electrical system. It monitors the utility power and signals the generator to start if the utility power goes out of spec or drops out entirely (blackout). Backup power is now fed to the main utility panel or an emergency panel via the ATS. All FMT group generators has the ATS system.

AUTOMATIC TRANSFER SWITCHES



VOLTAGE	MODEL CONFIGURATION	ATS PANEL MODEL	CAPACITY AMPS	Dimension (mm) $W \times L \times H$
400/230 VAC	3P5-V400-GENA-SYC	R2000A-4P-CO-GENA	2000A 4P	822 x 800 x 1845

PRO-ACB Series

FMT PRO-ACB Series intelligent type universal circuit breaker is suitable for AC50HZ, rated voltage up to 660V(690) and below, rated current 400A-6300A of the distribution network used to distribute power and protect circuits and power supply equipment against overload, under-voltage, short circuit, single-phase ground fault. Circuit breaker protection with intelligent, selective protection of precision, improve the reliability of power supply, avoid unnecessary power outages. At the same time with an open communication interface for four remote, meet the requirements of the system centers and automation systems. The circuit breaker at an altitude of 2000 meters pulse pressure 8000V (different altitude correction according to the standard, no more than 12000V). The circuit breaker without in Intelligent Release and sensor can be used for isolation, mask as Circuit Breaker meets the requirement specified in GB14048.2 "low-voltage switchgear and control equipment low-voltage circuit breakers" and IEC947-2 "low-voltage switchgear and control equipment circuit breaker".



🕻 note:

DPTINAL

- All information given in this data sheet is intended for guidance only
 Producing with ISO9001, ISO14001, OHSAS18001, CE standards
- FMT GROUP reserves the right to change the details without prior notice
 TBA: To Be Asked, N/A: Not Applicable



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