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POWER RATING

RATING 12 KW 43-56 VOLT DC

HYBRID POWER UNIT**DIESEL GENERATOR SET 48V DC**

ISSUE 2016

**DATA SHEET SPECIFICATION 12KW - Variable Speed****Description**

Younes Bros generators are fully designed to maintain optimum performance and reliability using the finest solutions for technical simplicity and robust construction

Our generators are available with **CE** certification along with the installation Quality Assurance (**IQA**) from Yanmar and designed in facilities certified to ISO 9001

**YBYM15 - 3TNV88****Features****Unique Composition:**

Built in a single Package with a strong structure, galvanized and coated metal sheet, the DC HPU is made of one block in 2 separate sections for easy transportation and includes:

Upper Section:

- DC Generator: 48 V dc
- Sound and Weather proof Canopy @ 65 dB(A) 1m

Lower Section:

- Deep Cycle Batteries with Battery Box
- 400 liters fuel tank

Unique Features:

- Engine Variable Speed to maximize the Energy Efficiency
- Integration of Logic: one single core managing all the components
- Direct output: 48 VDC directly from the DC Generator
- Genset accepts load as per NFPA110
- Panel tale sun-solar model for charging batteries
- Easy assembly/disassembly design
- Integrated exhaust silencer and compensator
- Maintenance interval 250/500 operating hours



THE POWER OF INDEPENDENCE

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HYBRID POWER UNIT

YOUNES // BROS

DIESEL GENERATOR SET 48V DC

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Genset Specifications

Generating set 12kw , equipped with Yanmar diesel engine type 3TNV88 driving at a Variable Speed Range 1100-1800 RPM.

A single bearing NSM alternator brushless, self excited, self regulated, insulation and temperature class H, 43 - 56 Volt Hz DC 250 Amp

Brand	YANMAR	Version	Silent
Type	3TNV88	Fuel	Diesel
Engine Output (Kw)	12	Generator Output (Kw)	12
No of cylinders	Inline 3	Generator Type	XG 132 SA/4
Ambient temperature	55°C	Fuel Consumption at load 100% (liter/hour)	2.3/2.9
Rotation Speed Range	1100-1800 RPM		
Cooling System	Water + Air	Type of Governor	Electronic

Alternator Specifications

- Rated Voltage : 48 V
- Phase : 3
- Rotation Speed Range : 1100-1800 RPM

Generator Set Options

Engine: Water jacket heater 240V

Enclosure: Sound attenuated canopy

Alternator: Alternator Heater



Control System

DATAKOM Automatic Start Control module that offers an advanced range of engine monitoring and protection features



The DKG-379 is an advanced DC genset controller for both variable and fixed speed systems. It is presented in 3 different versions, as ANALOG DRIVE, POWER DRIVE and CANBUS DRIVE.

Warranty: 2 Years for prime application or 1000 hours which occurs first.

Silencer : 9 dB attenuation industrial silencer
25 dB residential - delivered loose

Younes Bros s.a.r.l

Address: Nahr El Mott - Main Road - Beirut - Lebanon

Contact us : 00961-1-887886-901488-902488

Fax : 00961-1-901588

Email : info@younesbros.com



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