

80 KVA DIESEL GENERATOR

FEATURES & BENEFITS

- Maximum 88 kVA, 380V, 1500 RPM
- Constant voltage AVR (Automatic Voltage Regulator)
- 24 Volt Electric Starter
- 230 Litre Fuel Tank, 14 Hours @ 75% load
- Silent Version (± 72 dBa)
- Four cylinder, vertical, water cooled Diesel Engine
- Three Phase Output
- Datakom D300 Digital Control Panel
- Low oil pressure system
- Low water cut out engine protection



GENERAL DATA	
Model:	BPD80S3
Prime Power (P.R.P):	80 kVA
Stand-by Power (L.T.P):	88 kVA
Amps:	133 A
Power Factor / COS:	0.8
Frequency:	50 Hz
Voltage:	380 V
Phases:	Three Phase
Engine Speed:	1500 RPM
Length:	2700 mm
Width:	1050 mm
Height:	1500 mm
Weight:	1485 kg's
Tank Capacity:	230 l

ADDITIONAL	
Running Time:	14 Hours @ 75% load
Structure Type:	Silent
Noise Level (7m):	72 dBA
Auto Voltage Regulator:	Constant voltage AVR
ISO9001 Certified:	Yes
CE Certified:	Yes
Fuel Cons. @ 100% Load:	20.7
Fuel Cons. @ 75% Load:	16.0
Fuel Cons. @ 50% Load:	11.0

ENGINE DATA	
Brand:	SDEC
Model:	SC4H115D2
Type:	Four cylinder, vertical, water cooled Diesel Engine
Starting System:	24 Volt Electric Starter
Auto-Decompression:	Yes
Cubic Capacity (l):	4.3
Compression Ratio:	17.3:1
Rated Power (kW/RPM):	78 / 1500
Fuel Type:	Diesel
Lube Oil:	L-ECD grade or 15W40
Low Pressure Alert:	Yes
Low Fuel Cut Out:	Yes

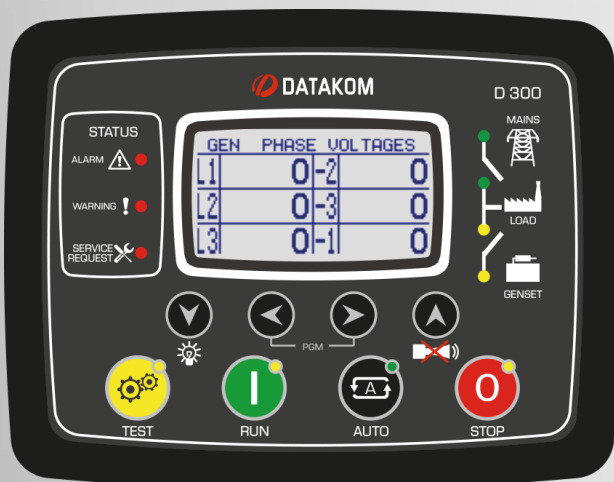
CONTROL PANEL	
Model:	Datakom D300
Type:	Digital Control Panel
Analogue Inputs:	2
Mains Phase Voltage:	Yes
Mains Line Voltage:	Yes

ALTERNATOR	
Model:	DPC224G
Pole Number:	4
Excitation Mode:	Self Excitation

Contact: Mike de Castro
Cell No: 078 095 4453

* Specs subject to change without prior notice.
 * Measurements based on ISO8528-1 Standards
 * All rating at Sea Level, 25°C Ambient Temp.

THE NEW D-300 MK3



The D-300 MK3 is a cost effective modular genset controller ready for internet monitoring through plug-in modules.

FEATURES

- Diesel and gas genset support
- 400Hz operation 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
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- 6 configurable digital outputs
- 3 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- 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 alarm
- PLC functionality
- DPF regeneration functionality
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-485, Ethernet and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support
- Automatic GSM geo-location
- Easy USB firmware upgrade
- -40°C operation with optional display heater
- IP65 rating with optional gasket

MEASUREMENTS

- Mains & genset PN/PP voltages
- Mains & genset frequency
- Mains & genset phase currents
- Mains & genset neutral currents
- Mains & genset, phase & total, kW, kVA, kVAR, pf
- Engine speed
- Battery voltage

PLUG-IN MODULES

- GSM Modem (2G-3G-4G)
- Ethernet 100Mbps
- Wi-Fi (802.11 b/g/n)
- RS-485 (2400-57600baud)
- RS-232 (2400-57600baud)

FUNCTIONALITIES

- AMF unit
- ATS unit
- Remote start controller
- Manual start controller
- Engine controller
- Remote display panel

TOPOLOGIES

- 3 ph 4 w, star & delta
- 3 ph 3 w, 2 CTs
- 2 ph 3 w
- 1 phase 2 wires

COMMUNICATION

- USB Device
- J1939-CANBUS
- Geo-locating through GSM
- Internet Central Monitoring
- SMS message sending
- E-mail sending
- Free PC software: Rainbow Plus
- Modbus RTU (2400-57600baud)
- Modbus TCP/IP



RoHS

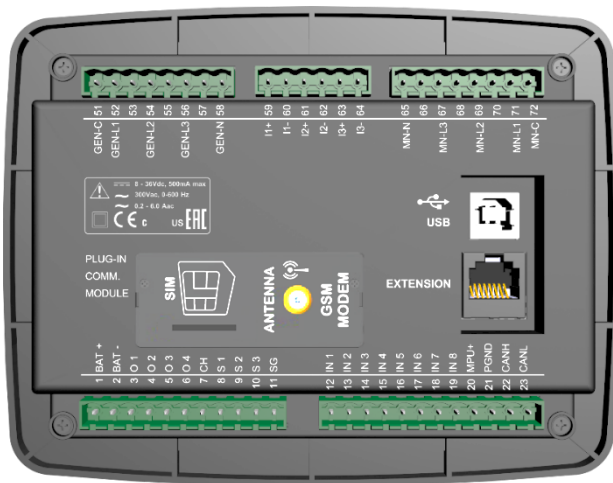
EAC

cULus

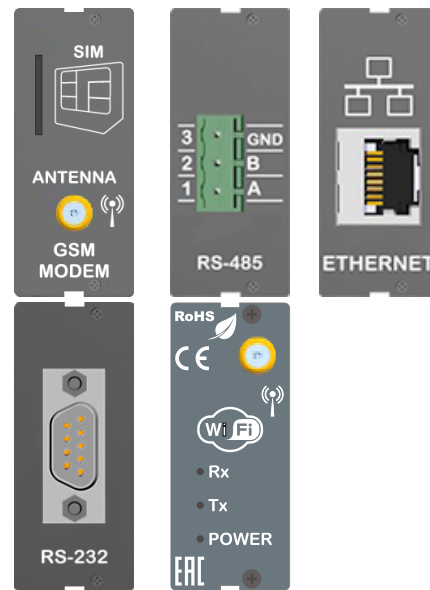
CE

 DATAKOM

PLUG-IN MODULES

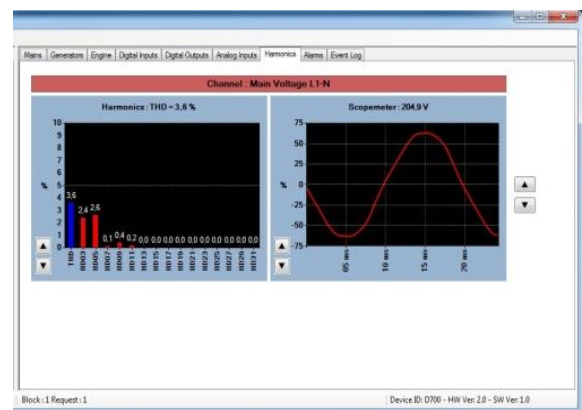
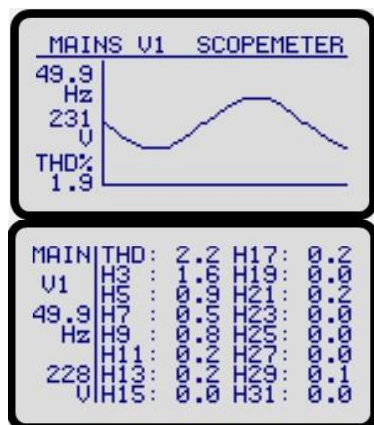


Backpanel view

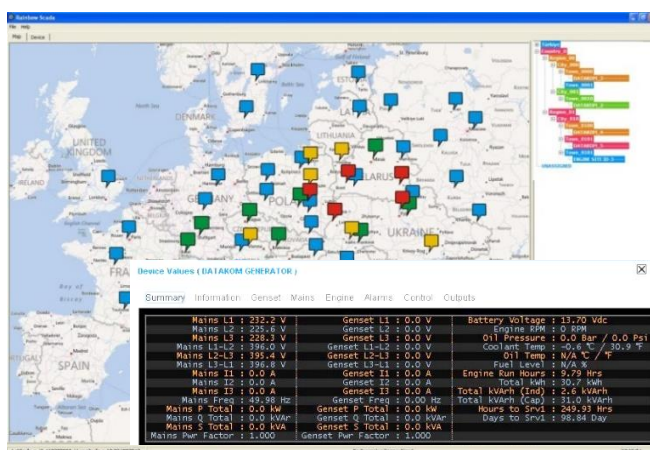


Plug-in modules

SCOPEMETER & HARMONICS



RAINBOW SCADA CENTRAL MONITORING

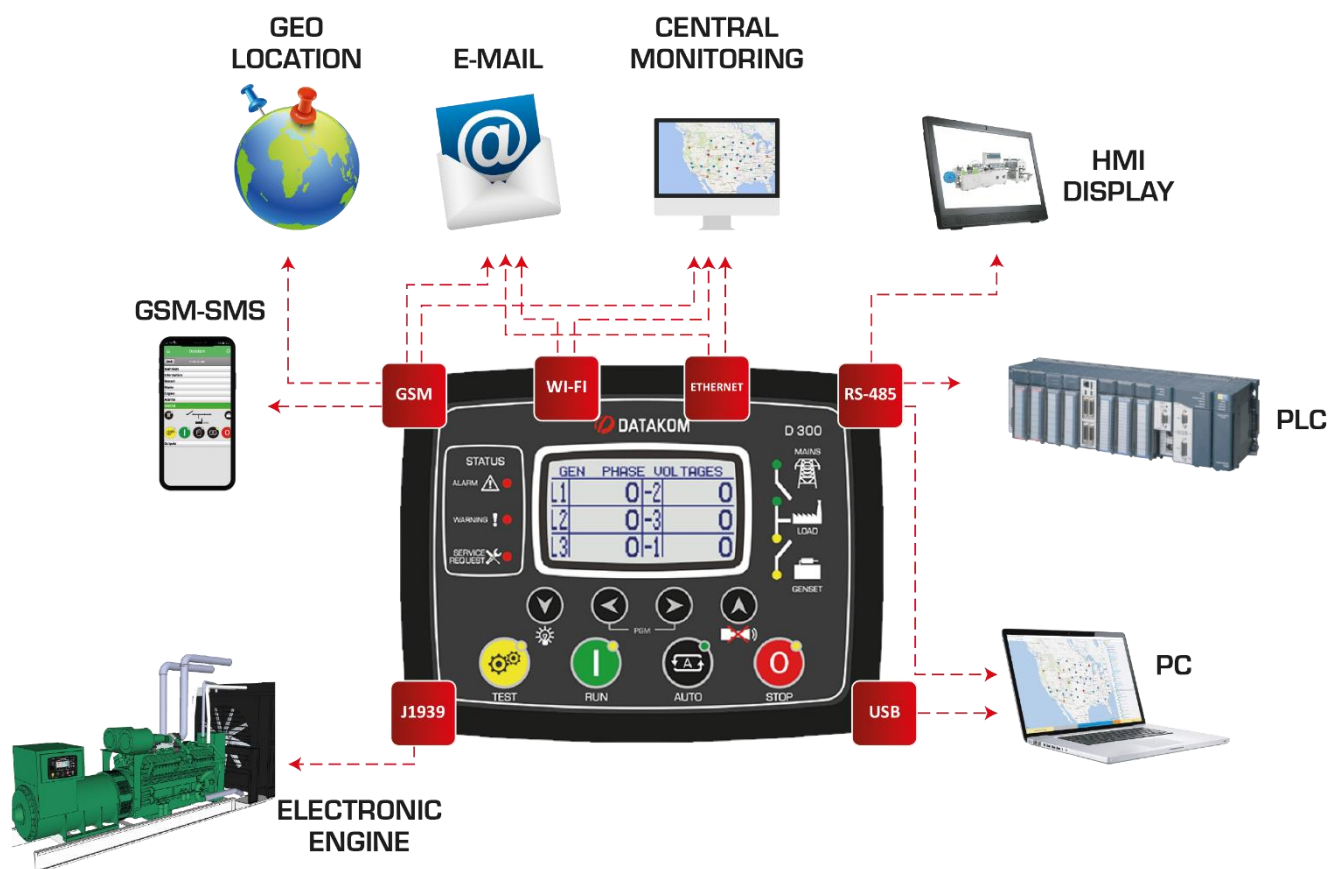


Display on Map, online monitoring



Smartphone Support

COMMUNICATIONS



TECHNICAL SPECIFICATIONS

Alternator voltage: 0 to 300 V-AC (Ph-N)
Alternator frequency: 0-600 Hz.
Mains voltage: 0 to 300 V-AC (Ph-N)
Mains frequency: 0-600 Hz.
Topology: 1-2-3 phases, with or without neutral
DC Supply Range: 8.0 to 36.0 V-DC.
V-A-cos Accuracy: 0.5% + 1 digit
kW-kVA-kVAr Accuracy: 1.0% + 1 digit
Current consumption: 180 mA-DC max @ 12V-DC
Current Inputs: current transformers. ..5A or ../1A.
Digital inputs: input voltage 0 to 36 V-DC.
Analog input range: 0-5000 ohms.
Mains and genset controller 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 50VAC.
Magnetic pickup frequency: 0 to 10000 Hz.
Charge Alternator Excitation: 2W.
Display Screen: 2.9", 128x64 pixels
USB Device: USB 2.0 Full speed
Operating temperature: -20°C to 70°C (-4 to +158 °F)
 With optional display heater: -40°C to 70°C (-40 to +158 °F)
Storage temperature: -40°C to 80°C (-40 to +176°F)

Maximum humidity: 95% non-condensing.
IP Protection: IP65 from front panel, IP30 from the rear (with gasket)
Dimensions: 180 x 140 x 46mm (WxHxD)
Panel Cut-out Dimensions: 151 x 111 mm minimum.
Weight: 300 g (approx.)
Case Material: High Temperature, non-flammable ABS/PC
Installation: Flat surface mounting on a Type 1 enclosure. Rear retaining plastic brackets.

CONFORMITY

EU Directives Conformity
 -2014/35/EC (low voltage)
 -2014/30/EC (electro-magnetic compatibility)
Norms of reference:
 EN 61010 (safety requirements)
 EN 61326 (EMC requirements)
UL & CSA Compatibility:
 -UL 6200, Controls for Stationary Engine Driven Assemblies (Certificate # - 20140725-E314374)
 -CAN/CSA C22.2 No. 14-13 – Industrial Control Equipment

TYPICAL CONNECTIONS

