



GENERATORS

AFSS POWER SYSTEMS

All military vehicles and military platforms need extra power to keep their systems active, apart from the power produced by the vehicle. These powers are provided by a different power generating system or from the grid electricity at the location of the vehicle. Some platforms need such high power that they have to use all the power generating systems they have.

ARES FSS Power Systems provides Military Generator, APU, PTO Alternator and AC/DC Converter (rectifier) systems for military vehicles and military platforms to provide the power needed by the platform and the capability systems on the vehicle. These systems provide the military vehicle with extra power as AC - DC in the required feature and volume. Thanks to this power, the military platform; It achieves capabilities such as silent operation capability and high reliability rate on the vehicle platform.

At the same time, there are dozens of systems on the vehicle, but the power generating systems are on average 4-5. There are power units in order for the systems to distribute and control these power needs automatically and to receive the errors and feedbacks that occur in the system and deliver them to the user via ethernet and remote connection. These power distribution units are systems that automatically distribute and control the power produced by the platforms on the vehicle as needed by the platform and systems. These smart power solutions are fully qualified systems that have passed the MIL-STD-810G, MIL-STD-461E tests and can operate in all harsh environmental conditions.



AFSS POWER SYSTEMS SUBPRODUCT CATEGORY GENERAL SPECIFICATIONS

2-1000 kW
Power
Capacity

Smart
Control
Units

Super
Silent and
Compact
Design

24 Hours
Continu-
ous Power



100% Re-
liability at
Extreme
Circum-
stances

Dual-
Mobile-
Platform

High
Efficiency

Remote
Access

Tailor-
Made
Design

MILITARY GENERATOR GENERAL CAPABILITIES

MIL-STD-1275E conformant
MIL-STD-810G tests completed
MIL-STD-461 EMI tests completed

It can be designed
and applied as Dual –
Mobile – Platform

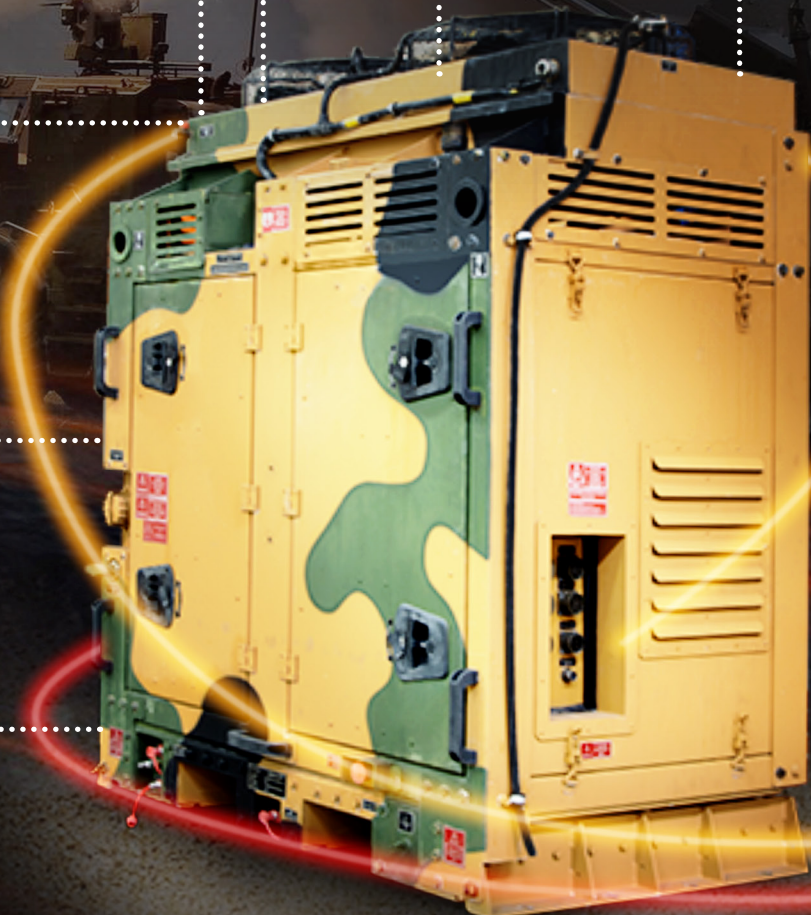
Specially developed electronic
cards and control unit instead of
electronic board panel to reduce
weight and dimensions 30%

Ability to operate at
55oC without overheat

Silent : 55 db at 7
meters

Capability to develop
military generators
between 2KW and
1000KW

Design for special
dimensions





MILITARY GENERATOR 3 KVA - RG3M

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Mobile Generator



STAND BY POWER
3 KVA



CONTINUOUS POWER
2,5 KVA



FREQUENCY
50 Hz



COOLING SYSTEM
Water Cooling System



VOLTAGE PHASE NUMBER
1



CONNECTION TYPE
RS422 – TCP



SOUND LEVEL
75 Db in 7 Meters



WEIGHT
156 KG



OPERATING TEMPERATURE
-32 / +55 °C



STORAGE TEMPERATURE
-40 / +60 °C



FUEL TYPE - CONSUMPTION
Diesel - 3 LT/H



BATTERY CAPACITY
40 AH



DIMENSIONS (L x W x H)
882×525×603 ±5 mm

ENGINE SPECIFICATIONS

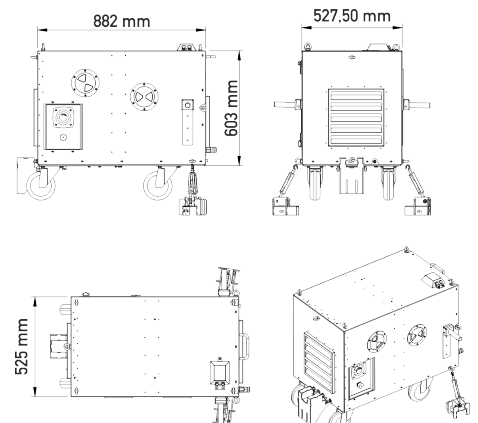
ENGINE	Kubota
MODEL	Z482
OUTPUT POWER	9,3 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	2
MAXIMUM SPEED	3000 RPM
STARTING SYSTEM	Electrical Starting System

ALTERNATOR SPECIFICATIONS

OUTPUT POWER	7 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2% V
MAXIMUM SPEED	3000 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test





MILITARY GENERATOR 5 KVA - RG5M

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Mobile Generator



STAND BY POWER
5 KVA



CONTINUOUS POWER
4 KVA



FREQUENCY
50 Hz



COOLING SYSTEM
Water Cooling System



VOLTAGE PHASE NUMBER
1



CONNECTION TYPE
CANBUS/Serial/Ethernet



SOUND LEVEL
95 Db in 7 Meters



WEIGHT
230 KG ± 5



OPERATING TEMPERATURE
-32 / +55 °C



STORAGE TEMPERATURE
-40 / +60 °C



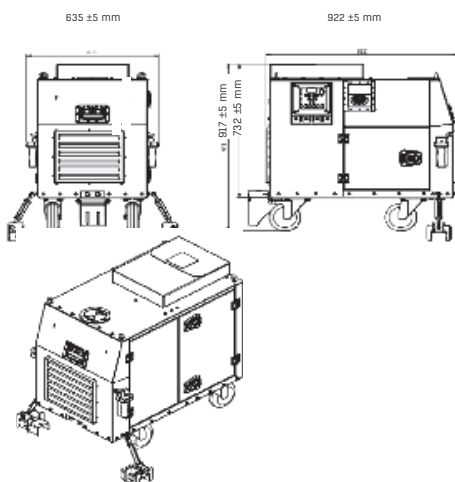
FUEL TYPE - CONSUMPTION
Diesel - 3 LT/H



BATTERY CAPACITY
40 AH



DIMENSIONS (L x W x H)
922x635x917 ± 5 mm



ALTERNATOR SPECIFICATIONS

OUTPUT POWER	7 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	$\pm 2\% V$
MAXIMUM SPEED	3000 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test

ENGINE SPECIFICATIONS

ENGINE	Kubota
MODEL	Z482
OUTPUT POWER	9,3 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	2
MAXIMUM SPEED	3000 RPM
STARTING SYSTEM	Electrical Starting System



MILITARY GENERATOR 7 KVA - RG7M

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Mobile Generator



VOLTAGE PHASE NUMBER
1



STORAGE TEMPERATURE
-40 / +60 °C



STAND BY POWER
7 KVA



CONNECTION TYPE
RS422 – TCP



FUEL TYPE - CONSUMPTION
Diesel - 3 LT/H



CONTINUOUS POWER
4,3 KVA



SOUND LEVEL
75 Db in 7 Meters



BATTERY CAPACITY
70 AH @12V



FREQUENCY
50 Hz



WEIGHT
170 KG



DIMENSIONS (L x W x H)
922×538×701 ±5 mm



COOLING SYSTEM
Water Cooling System



OPERATING TEMPERATURE
-32 / +55 °C

ENGINE SPECIFICATIONS

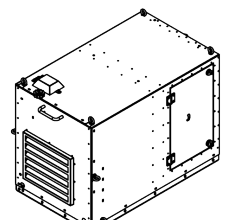
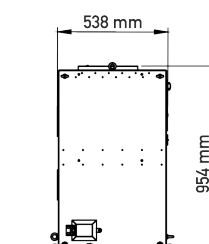
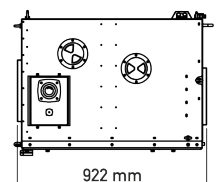
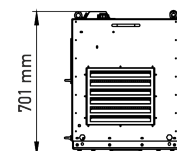
ENGINE	Kubota
MODEL	Z482
OUTPUT POWER	9,3 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	2
MAXIMUM SPEED	3000 RPM
STARTING SYSTEM	Electrical Starting System

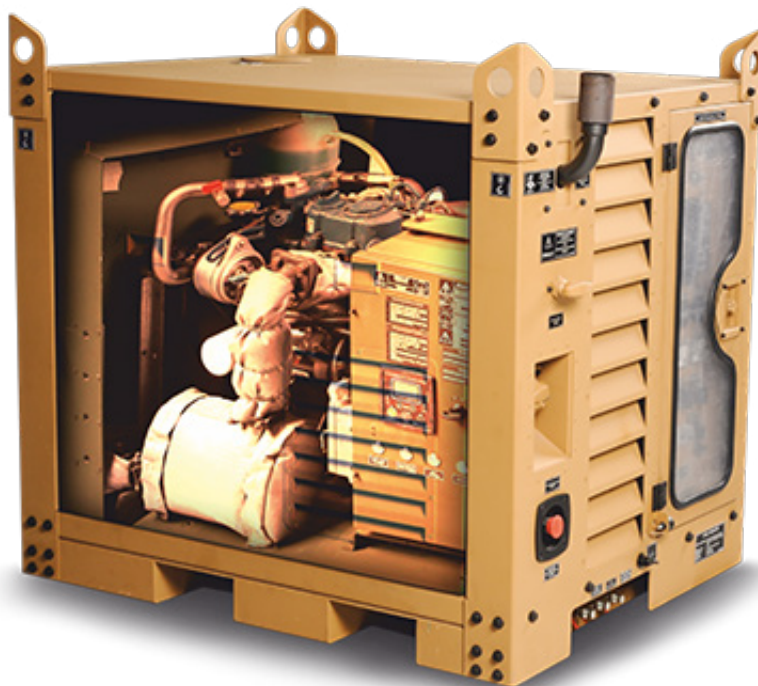
ALTERNATOR SPECIFICATIONS

OUTPUT POWER	7 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2% V
MAXIMUM SPEED	3000 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test





MILITARY GENERATOR 15 KVA-RG15M

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Mobile Generator



VOLTAGE PHASE NUMBER
1



STORAGE TEMPERATURE
-40 / +60 °C



STAND BY POWER
15 KVA



CONNECTION TYPE
RS422 – TCP



FUEL TYPE - CONSUMPTION
Diesel - 5 LT/H



CONTINUOUS POWER
12,5 KVA



SOUND LEVEL
75 Db in 7 Meters



BATTERY CAPACITY
95 AH @12V



FREQUENCY
50 Hz



WEIGHT
700 KG ±5



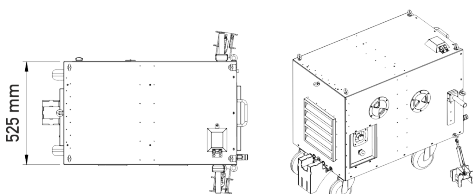
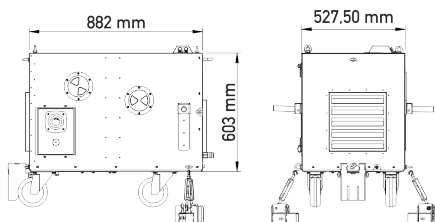
DIMENSIONS (L x W x H)
882x 525 x 527,50 ±5 mm



COOLING SYSTEM
Water Cooling System



OPERATING TEMPERATURE
-32 / +55 °C



ALTERNATOR SPECIFICATIONS

OUTPUT POWER	20 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2% V
MAXIMUM SPEED	3000 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test

ENGINE SPECIFICATIONS

ENGINE	Kubota
MODEL	D1105T
OUTPUT POWER	24,5 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	3
MAXIMUM SPEED	3000 RPM
STARTING SYSTEM	Electrical Starting System



MILITARY GENERATOR 17 KVA - RG17M

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Mobile Generator



VOLTAGE PHASE NUMBER
1



STORAGE TEMPERATURE
-40 / +60 °C



STAND BY POWER
17 KVA



CONNECTION TYPE
RS422 – TCP



FUEL TYPE - CONSUMPTION
Diesel - 5 LT/H



CONTINUOUS POWER
12,5 KVA (10KW)



SOUND LEVEL
75 Db in 7 Meters



BATTERY CAPACITY
95 AH @12V



FREQUENCY
50 Hz



WEIGHT
863 KG ±5



DIMENSIONS (L x W x H)
882x525x527,50 ±5 mm



COOLING SYSTEM
Water Cooling System



OPERATING TEMPERATURE
-32 / +55 °C

ENGINE SPECIFICATIONS

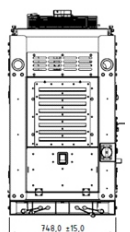
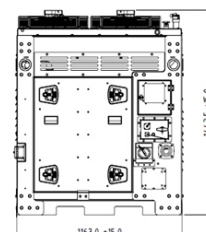
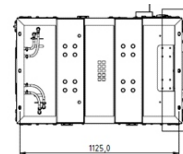
ENGINE	Kubota
MODEL	D1105T
OUTPUT POWER	24,5 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	3
MAXIMUM SPEED	3000 RPM
STARTING SYSTEM	Electrical Starting System

ALTERNATOR SPECIFICATIONS

OUTPUT POWER	17 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2% V
MAXIMUM SPEED	3000 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test





MILITARY GENERATOR 20 KVA - RG20M

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
H class



VOLTAGE PHASE NUMBER
3



STORAGE TEMPERATURE
-40 / +60 °C



STAND BY POWER
22,5 KVA



CONNECTION TYPE
RS422 – TCP



FUEL TYPE - CONSUMPTION
Diesel - 8,6 LT/H



CONTINUOUS POWER
20 KVA



SOUND LEVEL
70 Db in 7 Meters



BATTERY CAPACITY
95 AH @12V



FREQUENCY
50 Hz



WEIGHT
900 KG ±5



DIMENSIONS (L x W x H)
1484x1318x791 ±5 mm



COOLING SYSTEM
Water Cooling System



OPERATING TEMPERATURE
-32 / +55 °C

ALTERNATOR SPECIFICATIONS

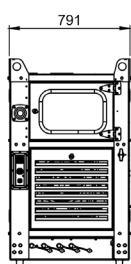
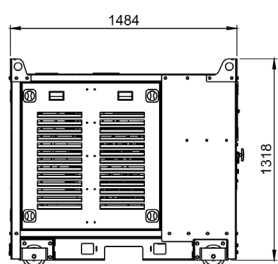
OUTPUT POWER	24,5 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2,5 % V
MAXIMUM SPEED	3000 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test

ENGINE SPECIFICATIONS

ENGINE	Perkins
MODEL	404D-22G
OUTPUT POWER	33 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	4
MAXIMUM SPEED	1500 RPM
STARTING SYSTEM	Electrical Starting System





MILITARY GENERATOR 22,5 KVA - RG22D

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Platform/Ray/Dual



VOLTAGE PHASE NUMBER
3



STORAGE TEMPERATURE
-40 / +60 °C



STAND BY POWER
22,5 KVA



CONNECTION TYPE
RS422 – TCP/ IP-CANBUS



FUEL TYPE - CONSUMPTION
Diesel - 8,6 LT/H



CONTINUOUS POWER
18,5 KVA



SOUND LEVEL
75 Db in 7 Meters



BATTERY CAPACITY
95 AH @12V



FREQUENCY
50 Hz



WEIGHT
1000 KG ±5



DIMENSIONS (L x W x H)
2456×678×1734 ±5 mm



COOLING SYSTEM
Water Cooling System



OPERATING TEMPERATURE
-32 / +55 °C

ENGINE SPECIFICATIONS

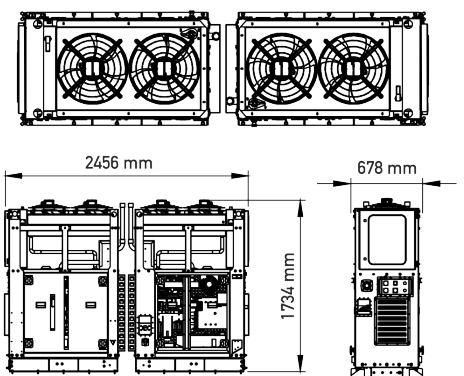
ENGINE	Kubota
MODEL	V1505T
OUTPUT POWER	9,3 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	4
MAXIMUM SPEED	3000 RPM
STARTING SYSTEM	Electrical Starting System

ALTERNATOR SPECIFICATIONS

OUTPUT POWER	33 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2% V
MAXIMUM SPEED	3000 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test





MILITARY GENERATOR 25 KVA - RG25DM

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Platform/Ray/Dual/Senkron



VOLTAGE PHASE NUMBER
3



STORAGE TEMPERATURE
-40 / +60 °C



STAND BY POWER
25 KVA



CONNECTION TYPE
RS422 – TCP/ IP-CANBUS



FUEL TYPE - CONSUMPTION
Diesel - 6,1 LT/H



CONTINUOUS POWER
20 KVA



SOUND LEVEL
75 Db in 7 Meters



BATTERY CAPACITY
95 AH @12V



FREQUENCY
50 Hz



WEIGHT
800 KG ±5



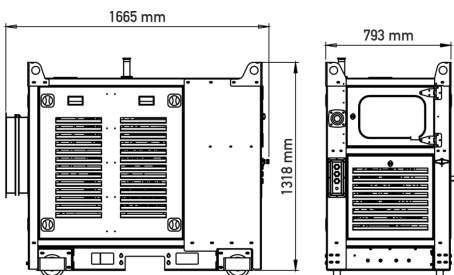
DIMENSIONS (L x W x H)
1655×793×1318 ±5 mm



COOLING SYSTEM
Water Cooling System



OPERATING TEMPERATURE
-32 / +55 °C



ALTERNATOR SPECIFICATIONS

OUTPUT POWER	25 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2,5 % V
MAXIMUM SPEED	1500 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test

ENGINE SPECIFICATIONS

ENGINE	Perkins
MODEL	404D22G
OUTPUT POWER	30 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	4
MAXIMUM SPEED	1500 RPM
STARTING SYSTEM	Electrical Starting System



MILITARY GENERATOR 25 KVA - RG25M

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Platform / Senkron



VOLTAGE PHASE NUMBER
3



STORAGE TEMPERATURE
-40 / +60 °C



STAND BY POWER
25 KVA



CONNECTION TYPE
RS422 – TCP/ IP-CANBUS



FUEL TYPE - CONSUMPTION
Diesel - 8,6 LT/H



CONTINUOUS POWER
20 KVA



SOUND LEVEL
7 Metrede 64 dB



BATTERY CAPABILITY
95 AH @24V



FREQUENCY
50 Hz



WEIGHT
860 KG ±5



DIMENSIONS (L x W x H)
1907×600×1406 ±5 mm



COOLING SYSTEM
Water Cooling System



OPERATING TEMPERATURE
-32 / +55 °C

ENGINE SPECIFICATIONS

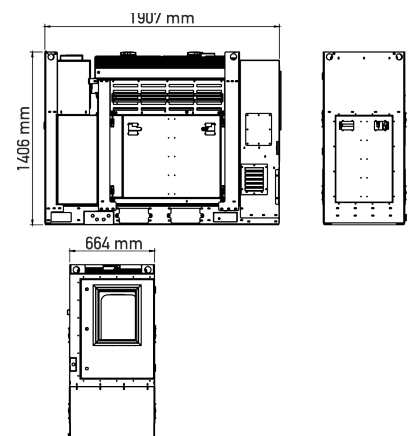
ENGINE	Perkins
MODEL	404D-22TG
OUTPUT POWER	36 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	4
MAXIMUM SPEED	3000 RPM
STARTING SYSTEM	Electrical Starting System

ALTERNATOR SPECIFICATIONS

OUTPUT POWER	30 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2,5 % V
MAXIMUM SPEED	1500 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test





MILITARY GENERATOR 25 KVA – RG25MC

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Platform / Senkron



VOLTAGE PHASE NUMBER
3



STORAGE TEMPERATURE
-40 / +60 °C



STAND BY POWER
25 KVA



CONNECTION TYPE
RS422 – TCP/ IP-CANBUS



FUEL TYPE - CONSUMPTION
Diesel - 8,6 LT/H



CONTINUOUS POWER
22,5 KVA



SOUND LEVEL
64 Db in 7 Meters



BATTERY CAPABITY
120 AH @24V



FREQUENCY
50 Hz



WEIGHT
1000 KG ±5



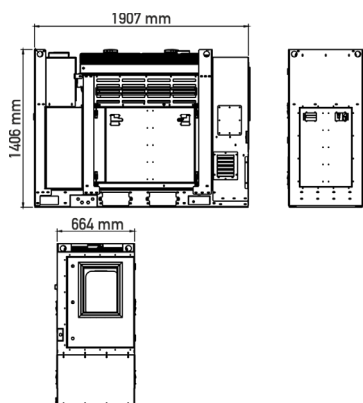
DIMENSIONS (L x W x H)
1907×600×1406 ±5 mm



COOLING SYSTEM
Water Cooling System



OPERATING TEMPERATURE
-32 / +55 °C



ALTERNATOR SPECIFICATIONS

OUTPUT POWER	28,8 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2,5 % V
MAXIMUM SPEED	3000 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test

ENGINE SPECIFICATIONS

ENGINE	Kubota
MODEL	V1505T
OUTPUT POWER	33 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	4
MAXIMUM SPEED	3000 RPM
STARTING SYSTEM	Electrical Starting System



MILITARY GENERATOR 25 KVA – RG255

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Platform/ Senkron



VOLTAGE PHASE NUMBER
3



STORAGE TEMPERATURE
-40 / +60 °C



STAND BY POWER
25 KVA



CONNECTION TYPE
RS422 – TCP/ IP-CANBUS



FUEL TYPE - CONSUMPTION
Diesel - 6,1 LT/H



CONTINUOUS POWER
22,5 KVA



SOUND LEVEL
64 Db in 7 Meters



BATTERY CAPABILITY 120 AH
@24V



FREQUENCY
50 Hz



WEIGHT
1000 KG ±5



DIMENSIONS (L x W x H)
2000×600×1107 ±5 mm



COOLING SYSTEM
Water Cooling System



OPERATING TEMPERATURE
-32 / +55 °C

ENGINE SPECIFICATIONS

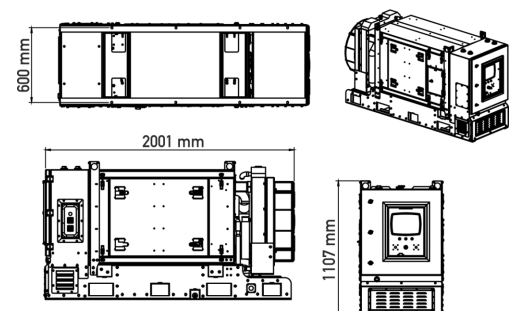
ENGINE	Kubota
MODEL	V1505T
OUTPUT POWER	33 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	4
MAXIMUM SPEED	3000 RPM
STARTING SYSTEM	Electrical Starting System

ALTERNATOR SPECIFICATIONS

OUTPUT POWER	28,8 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2,5 % V
MAXIMUM SPEED	3000 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test





MILITARY GENERATOR 28 KVA – RG28M

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Platform/Ray



VOLTAGE PHASE NUMBER
3



STORAGE TEMPERATURE
-40 / +60 °C



STAND BY POWER
28,8 KVA



CONNECTION TYPE
RS422 – RS485



FUEL TYPE - CONSUMPTION
Diesel - 7,8 LT/H



CONTINUOUS POWER
22,5 KVA



SOUND LEVEL
70 Db in 7 Meters



BATTERY CAPABILITY
95 AH @24V



FREQUENCY
50 Hz



WEIGHT
1000 KG ±5



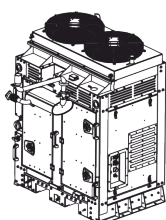
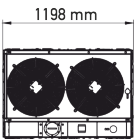
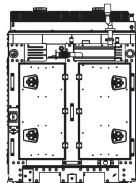
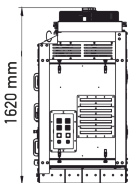
DIMENSIONS (L x W x H)
1195x800x1620 ±5 mm



COOLING SYSTEM
Water Cooling System



OPERATING TEMPERATURE
-32 / +55 °C



ALTERNATOR SPECIFICATIONS

OUTPUT POWER	28,8 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2,5 % V
MAXIMUM SPEED	3000 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test

ENGINE SPECIFICATIONS

ENGINE	Kubota
MODEL	V1505T
OUTPUT POWER	33 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	4
MAXIMUM SPEED	3000 RPM
STARTING SYSTEM	Electrical Starting System



MILITARY GENERATOR 80 KVA-RG80S

TECHNICAL SPECIFICATIONS



GENERATOR TYPE
Platform / Senkron



VOLTAGE PHASE NUMBER
3



STORAGE TEMPERATURE
-40 / +60 °C



STAND BY POWER
80 KVA



CONNECTION TYPE
RS422 – TCP



FUEL TYPE - CONSUMPTION
Diesel - 10 LT/H



CONTINUOUS POWER
62,5 KVA



SOUND LEVEL
70 Db in 7 Meters



BATTERY CAPABILITY
120 AH @24V



FREQUENCY
50 Hz



WEIGHT
2000 KG ±5



DIMENSIONS (L x W x H)
1484x1318x791 ±5 mm



COOLING SYSTEM
Water Cooling System



OPERATING TEMPERATURE
-32 / +55 °C

ENGINE SPECIFICATIONS

ENGINE	Perkins
MODEL	1104C-44TAG2
OUTPUT POWER	33 kW
ENGINE TYPE	Water Cooling Vertical Diesel Engine
NUMBER OF CYLINDERS	4
MAXIMUM SPEED	1500 RPM
STARTING SYSTEM	Electrical Starting System

ALTERNATOR SPECIFICATIONS

OUTPUT POWER	110 KVA
PROTECTION CLASS	IP23
VOLTAGE SENSITIVITY	± 2,5 % V
MAXIMUM SPEED	1500 RPM

MILITARY STANDARDS

MIL-STD-461F	MIL-STD-810G
High Temperature	Low Temperature
Humidity Test	Vibration Test

