

DIY POWER GENERATOR TRAINING

汇动力产品培训 BY TING





BY TING

Train Content 培训主题

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DIYPOWER
Generators

2

Configuration
of Gensets

3

Installation
& Operation

4

Regularly
Maintenance





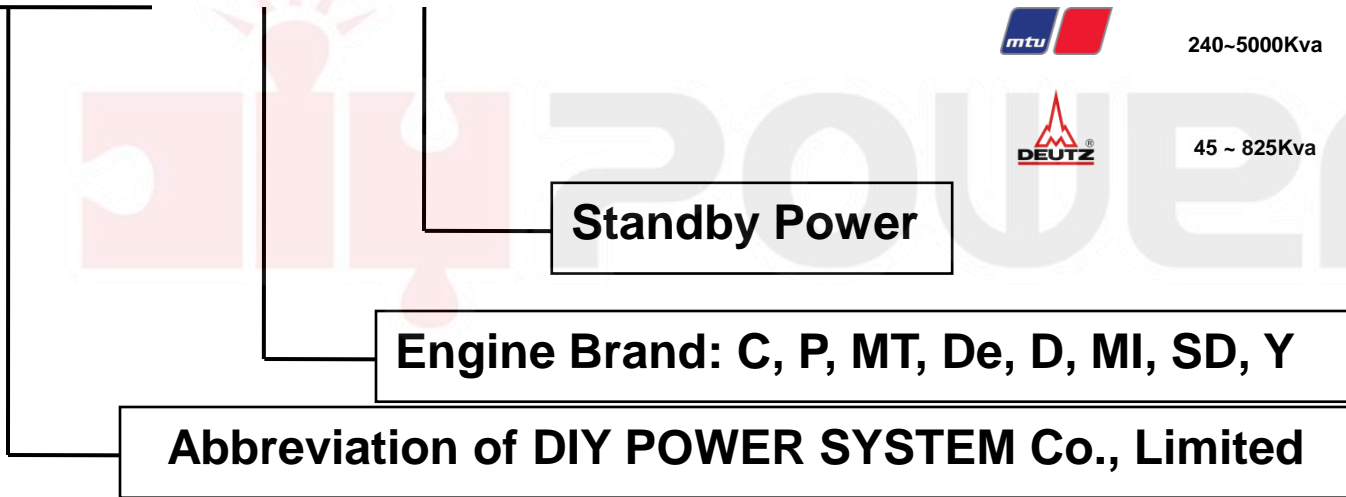
DIYPOWER Generators



BELIEVE YOURSELF
DO IT BEST!

1.1 Definitive rules of our Genset

D I Y - C 165 S



7~3000Kva



62~825Kva



8~2250Kva



625~2000 Kva



240~5000Kva



60~880Kva



45 ~ 825Kva



8-60KVA



DIYPOWER Generators

1.1 Definitive rules of our Genset

D I Y - C 165 S

Abbreviation of DIY POWER SYSTEM Co., Limited

Engine Brand: C, P, MT, De, D, MI, SD, Y

Standby Power

Style: O, S, C, T

Open Type



Silent Type



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DIYPOWER Generators



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1.1 Definitive rules of our Genset

D I Y - C 165 S



Container Type

Style: O, S, C, T

Standby Power

Engine Brand: C, P, MT, De, D, MI, SD, Y

Abbreviation of DIY POWER SYSTEM Co., Limited



DIYPOWER Generators



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1.1 Definitive rules of our Genset

D I Y - C 165 S



Trailer Type

Style: O, S, C, T

Standby Power

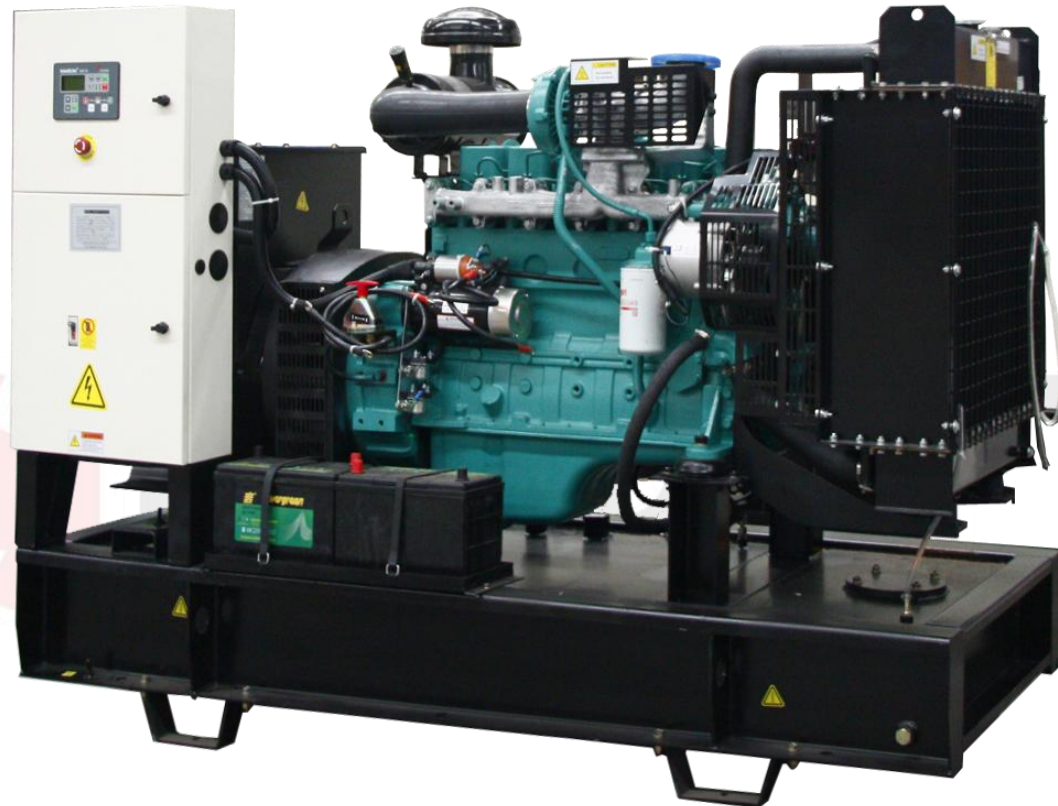
Engine Brand: C, P, MT, De, D, MI, SD, Y

Abbreviation of DIY POWER SYSTEM Co., Limited



Configuration of Gensets

1. Engine
(Radiator, Base frame& tank)
2. Alternator
3. Control System
4. Other auxiliaries
Canopy, Tailer, Container
ATS cabinet
Synchronizing Cabinet
.....



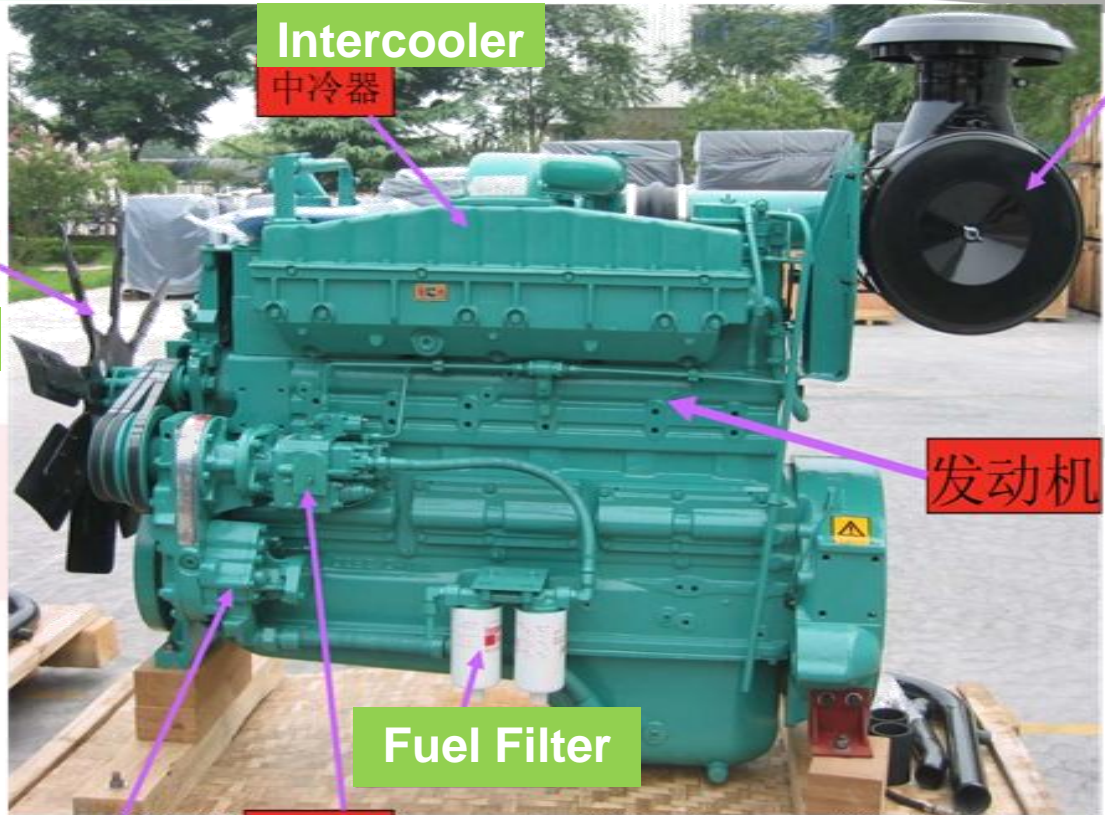
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Configuration of Gensets

2.1.1 Engine Main Parts



风扇
Fan

Intercooler
中冷器

空气滤清器
Air Filter

发动机

Fuel Filter

机油泵

燃油泵

Lub-oil Pump

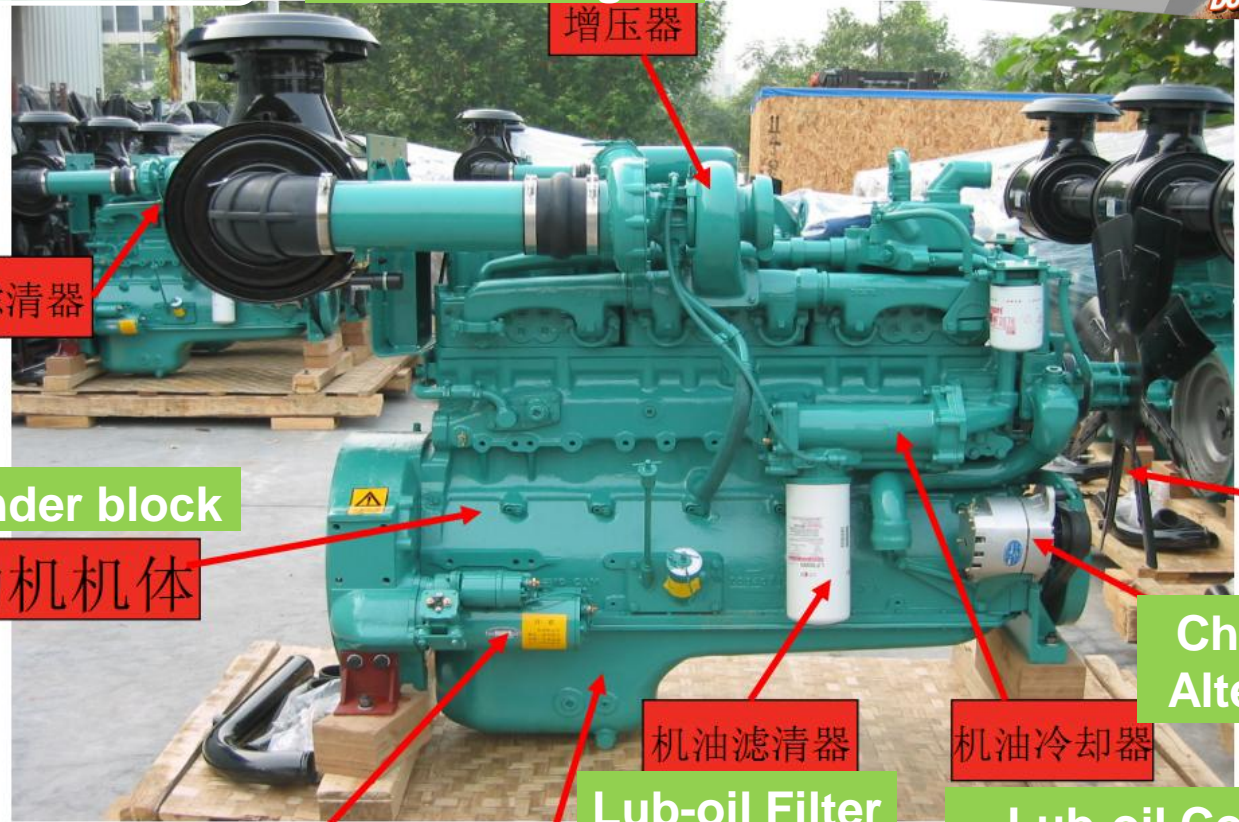
Fuel Pump



Configuration of Gensets

Turbo Charger

2.1.1 Engine Mian Parts



空气滤清器

增压器

Cylinder block

发动机机体

风扇

Charging Alternator

机油滤清器

机油冷却器

Lub-oil Filter

Lub-oil Cooler

起动机

机油盆

Start Motor

Oil sump tank



Configuration of Gensets

2.1.2 Engine Main Systems

Air Intake & Exhaust System

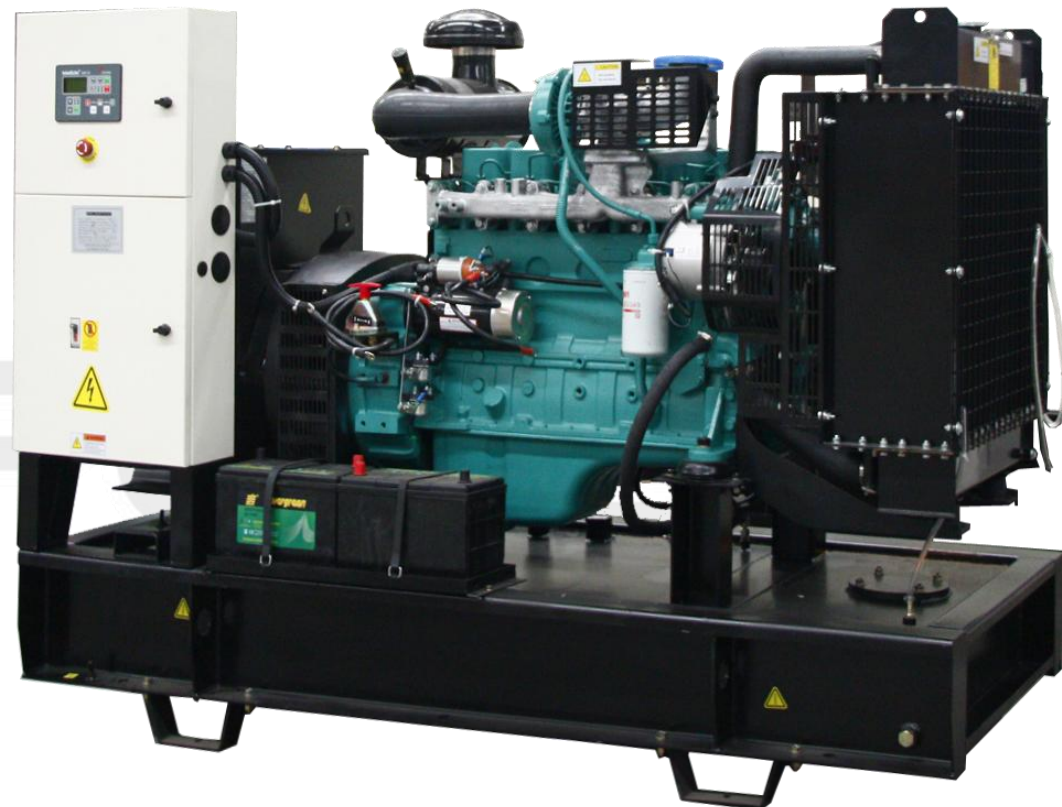
Fuel System

Lub-oil System

Cooling System

Starting System

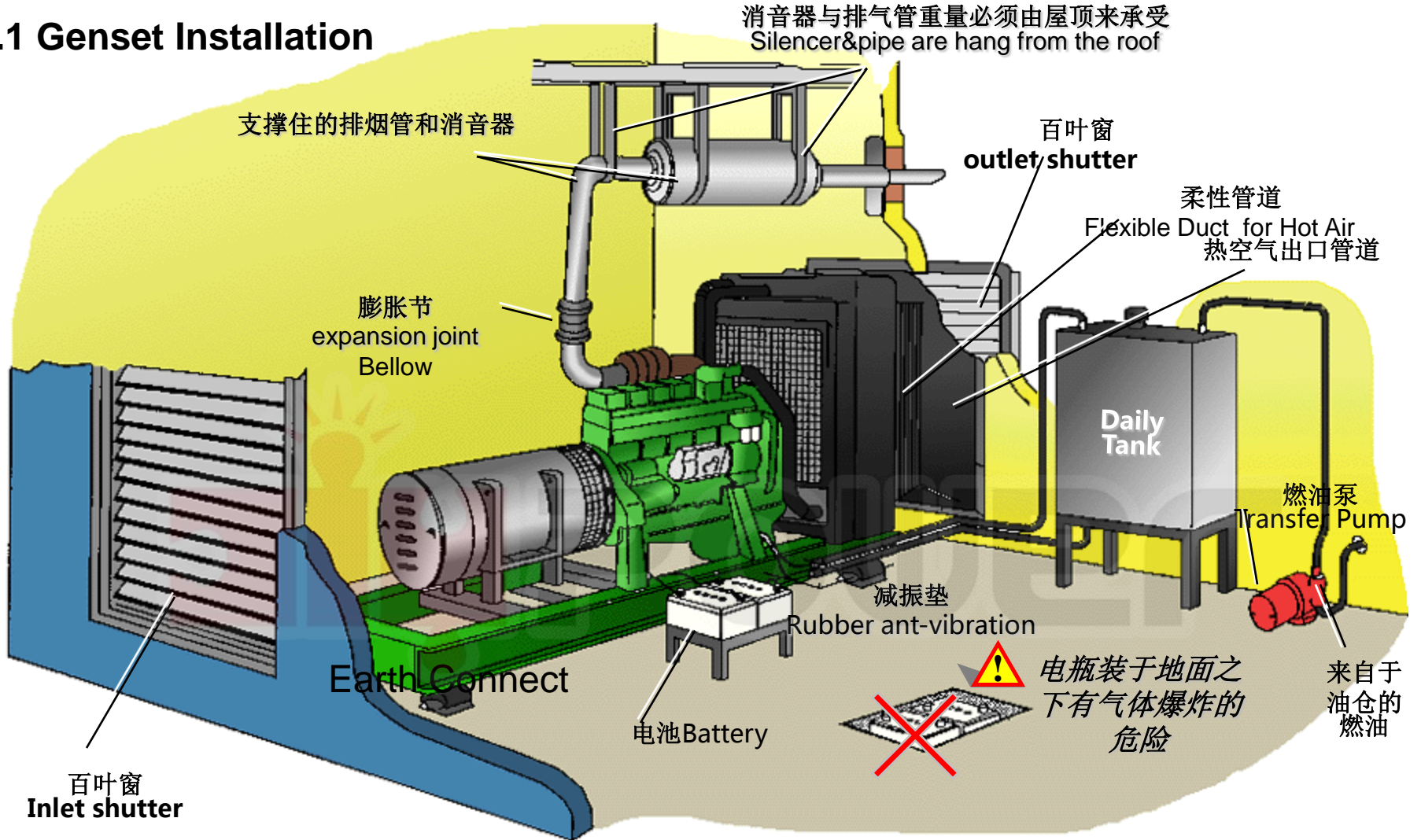
Speed Governor System



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保持机房整洁 Keep Clean of Genset Room

3.1 Genset Installation





Installation & Operation

3. 2 Prepare Work for starting

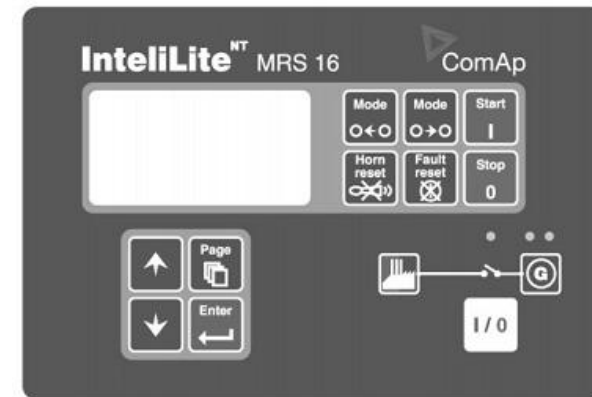
1. Off breaker
2. Cable connecting with Breaker bar
3. Battery Capacity (Voltage)
4. Lub-oil Capacity&level
5. Coolant Level, **Warn: Can not fill when running**
6. Air ventilate of canopy, inlet/outlet shutter of room
7. Exhaust pipe: safe, bent&block?
8. Fuel pipes/ capacity, block, hand pump

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Installation & Operation

3. 3. 2 Intelligent Control System



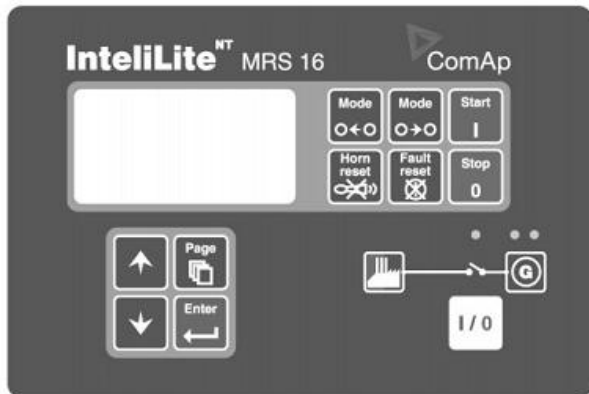
Pushbuttons

1. **MODE→** Cyclic forward selection the gen-set operation mode (OFF -> MAN -> AUT -> TEST)
2. **←MODE** Cyclic backward selection the gen-set operation mode (TEST -> AUT -> MAN ->OFF)
3. **HORN RESET** Deactivates the HORN
4. **FAULT RESET** Acknowledges faults and alarms
5. **START** Start of the gen-set
6. **STOP** Stop of the gen-set
7. **MCB ON/OFF** Manual open/close of the Mains circuit breaker
8. **GCB ON/OFF** Manual open/close of the Generator circuit breaker
9. **PAGE** Cyclic selection of the display mode(MEASUREMENT->ADJUSTEMENT)
10. Select the set point, select the screen or increase set point value
11. Select the set point, select the screen or decrease set point value
12. **ENTER** Confirm set point value



Installation & Operation

3. 3. 2 Intelligent Control System



Turn On Battery Power

Select Mode: Off/ Man/ Auto/ Off

Manual Start:

Press the Start button

Auto Start:

Operation by itself

Manual Start:

Press the Start button

Stop:

Press on the Stop button

Press Emergency Stop > Re set E-Stop

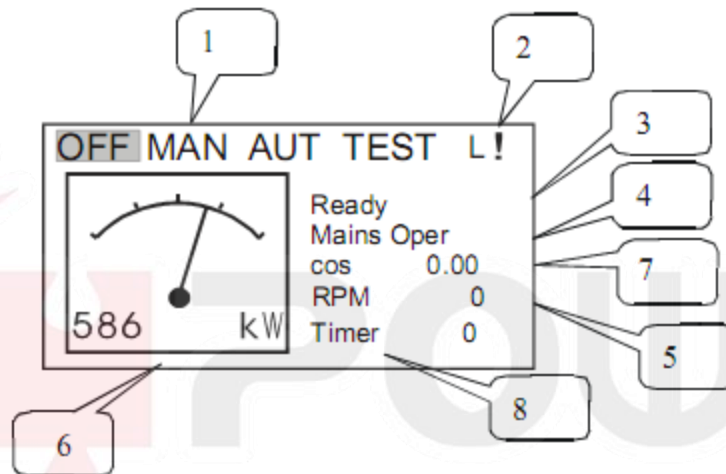
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Installation & Operation

3. 3. 2 Intelligent Control System

Main measure screen



1. Operation mode of the gen-set
2. Indication of active access lock, Remote OFF or Remote TEST L and alarm !
3. Status of the gen-set
4. Actual condition
5. RPM of the gen-set
6. Active power
7. Power factor
8. Timer - event s counting time (e.g. prestart, cooling, etc.)

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Fault resolution

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故障现象	排除方法
1. 发动机高水温度指示灯亮，并停机。	1. 指示冷却液温度过高，或液位过低，处理前请 1) 检查冷却液液位，如过低则补充，同时检查是否有渗漏，如有理之。 2) 检查冷却系统的冷却空气是否流通，如有障碍清除之。 3) 检查风扇皮带，是否打滑或松动，如有上紧之。 4) 上述问题排除后，将控制开关复原，再起动，如仍有此故障时请与服务中心或工厂联络。
2. 发动机低机油压力指示灯亮，并停机。请同时参考第4条。	2. 检查机油油位，有必要时补充机油，检查油管及过滤器是否有渗漏，如有则修理。将控制开关复原再起动，如仍有此故障时，请与服务中心或工厂联络。
3. 发电机组起动时停机，低机油压力指示灯亮。	3. 指示燃油系统可能有问题： 1) 检查燃油箱是否有油，渗漏或阻塞，如有排除之； 2) 检查燃油过滤器是否太脏，如有更换之； 3) 检查空滤器，是否阻塞或太脏，如有更换之； 4) 如仍有此故障时，请与服务中心或工厂联络。
4. 发电机组在运行中停机，并超速指示灯亮。	4. 指示发动机转速超过设定转速，请与服务中心或工厂联络。
5. 发动机不能起动。	5. 指示控制系统或起动系统有故障，按下列步骤处理： 1) 蓄电池连线接触不良，清洁连接处，并上紧之； 2) 蓄电池没充电或失效，充电或换新的； 3) 如仍有故障时，请与服务中心或工厂联络。



谢谢观赏

THANK YOU!

Any questions, ting@diypowers.com