



**THE POWER
OF THE
FUTURE,**

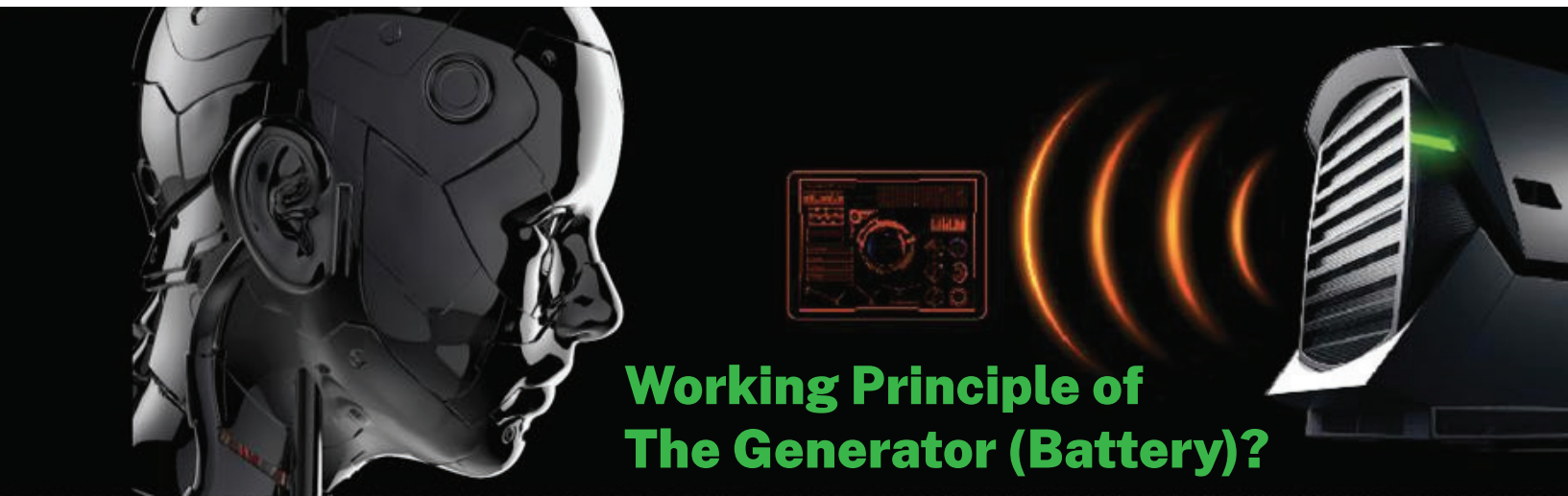


NOW WITH US.

Working Principle of The Generator (Network)?

The system is first started by 3 phase 380 v from the network. This line from the network is plugged into the socket connected to the panel. The energy coming from the network first reaches the electric contactor, then

the contactor and the motor going to the start motor. In the same way, after the energy production process of the hybrid generator, which is gradually start up thanks to the control on the driver control panel, is completed, the green light on the control panel illuminates, which we understand that the energy has been active. In both start methods, the frequency of the drive control remote control must be 50 hz. When the production process of the hybrid generator is completed, the energy cable coming from the mains is disabled and the transition occurs at a speed of 3 millisecond (m/s) thanks to the highampere capacitor relays between the contactors. Thanks to the second contactor and relays that are active immediately then, the power can continue without network without experience of high energy loss, thanks to the connection between batteries and inverters without interruption.



Working Principle of The Generator (Battery)?

The feeding energy that first starts the system is the 51.2 v 102 ah lithium ion lipo4 series we use and depending on the kw (in terms of energy) to be consumed, the battery quantity is specified in direct proportion with the selected alternator and engine and these batteries are connected in parallel to each other. In this way, it transfers the energy from the batteries connected inparallel to each other through copper bar system to the inverters these inverters are connected in parallel with the communication software and can system to obtain one phase from each inverter. Thanks to this parallel connections, 300-400 v emerges. This converted voltage is transferred from the Kw driver control panel, which accelerates the start-up motor, to theKw start-up motor, which is 3000 rpm, through the electronic contactor and the desired energy for the start-up of the motor is obtained. The engine is gradually .Accelerated with the controller located on the driver control panel. The engine, which provides gradual start-up in order not to consume the nominal energy in the batteries, produces high torque at slow rpm at a ratio of 2/1 to the large flywheel, which depends on the torque output it produces after approximately 250-500 rpm. Thanks to this required power, the double bearing alternator bearing system starts to rotate. When the start motor reaches 3000 rpm and the alternator reaches 1500 rpm, the green light on the control panel illuminates, indicating that it is ready to produce electricity. This means that the hybrid system is now ready to produce electricity.





DEVVRIM

THE POWER OF THE FUTURE, NOW WITH US.



DVR 50

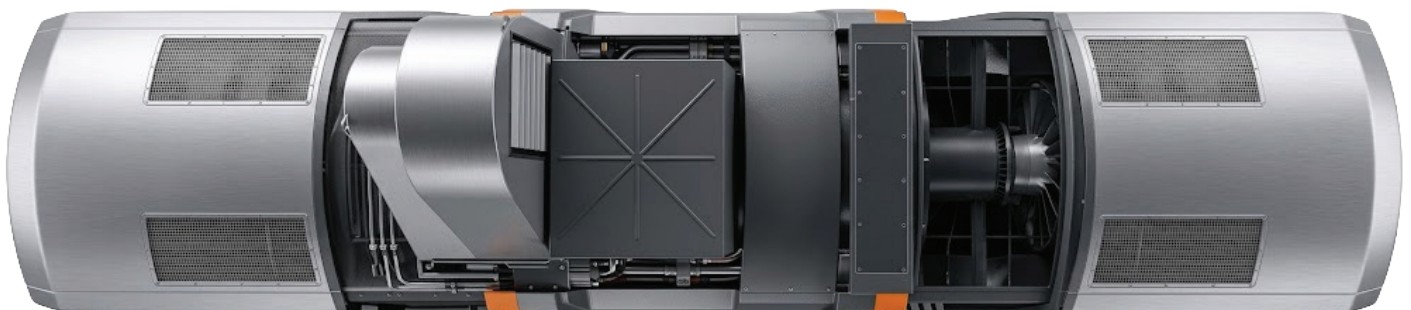
75 Kva
50 Kwh
90 Amper
Emergency Stop Button
Electric Starting Motor
(380 Volt 3 Faz 50/60 Hz)
System Activation Time
20 minutes
Air Cooled System
Fire System
7/24 Camera System
Manual Operation
Sound Insulation
Weight
2.150 kg
Dimensions
(width, length, height, mt)
1,5 x 3,5 x 1,4 mt

DVR 100

150 Kva
100 Kwh
180 Amper
Emergency Stop Button
Electric Starting Motor
(380 Volt 3 Faz 50/60 Hz)
System Activation Time
20 minutes
Air Cooled System
Fire System
7/24 Camera System
Manual Operation
Sound Insulation
Weight
3.100 kg
Dimensions
(width, length, height, mt)
1,5 x 4 x 1,4 mt

DVR 250

315 Kva
250 Kwh
450 Amper
Emergency Stop Button
Electric Starting Motor
(380 Volt 3 Faz 50/60 Hz)
System Activation Time
20 minutes
Air Cooled System
Fire System
7/24 Camera System
Manual Operation
Sound Insulation
Weight
4.800 kg
Dimensions
(width, length, height, mt)
2 x 4 x 2 mt



DVR 500

625 Kva
500 Kwh
910 Amper
Emergency Stop Button
Electric Starting Motor
(380 Volt 3 Faz 50/60 Hz)
System Activation Time
20 minutes
Air Cooled System
Fire System
7/24 Camera System
Manual Operation
Sound Insulation
Weight
5.600 kg
Dimensions
(width, length, height, mt)
2 x 4,5 x 2 mt

DVR 1000

935 Kva
750 Kwh
1350 Amper
Emergency Stop Button
Electric Starting Motor
(380 Volt 3 Faz 50/60 Hz)
System Activation Time
20 minutes
Air Cooled System
Fire System
7/24 Camera System
Manual Operation
Sound Insulation
Weight
8.000 kg
Dimensions
(width, length, height, mt)
2 x 5 x2 mt

DVR 1500

1.900 Kva
1.500 Kwh
2.800 Amper
Emergency Stop Button
Electric Starting Motor
(380 Volt 3 Faz 50/60 Hz)
System Activation Time
20 minutes
Air Cooled System
Fire System
7/24 Camera System
Manual Operation
Sound Insulation
Weight
11.800 kg
Dimensions
(width, length, height, mt)
2 x 6 x 2,2 mt

DVR 2000

2.500 Kva
2.000 Kwh
3.600 Amper
Emergency Stop Button
Electric Starting Motor
(380 Volt 3 Faz 50/60 Hz)
System Activation Time
20 minutes
Air Cooled System
Fire System
7/24 Camera System
Manual Operation
Sound Insulation
Weight
14.000 kg
Dimensions
(width, length, height, mt)
2,20 x 6,5 x 2,2 mt

DVR 3000

3.750 Kva
3.000 Kwh
5.400 Amper
Emergency Stop Button
Electric Starting Motor
(380 Volt 3 Faz 50/60 Hz)
System Activation Time
20 minutes
Air Cooled System
Fire System
7/24 Camera System
Manual Operation
Sound Insulation
Weight
16.800 kg
Dimensions
(width, length, height, mt)
3 x 7 x 2,5 mt

DVR 4000

5.000 Kva
4.000 Kwh
7.200 Amper
Emergency Stop Button
Electric Starting Motor
(380 Volt 3 Faz 50/60 Hz)
System Activation Time
20 minutes
Air Cooled System
Fire System
7/24 Camera System
Manual Operation
Sound Insulation
Weight
19.100 kg
Dimensions
(width, length, height, mt)
3 x 7 x 2,5 mt

DVR 5000

6.250 Kva
5.000 Kwh
9.000 Amper
Emergency Stop Button
Electric Starting Motor
(380 Volt 3 Faz 50/60 Hz)
System Activation Time
20 minutes

Air Cooled System
Fire System
7/24 Camera System
Manual Operation
Sound Insulation

Weight
22.000 kg
Dimensions
(width, length, height, mt)
4 x 10 x 3 mt



ERSEL ENERGY DESIGN YAPI INSAAT DEKORASYON OTOMOTIV IC VE DIS TICARET LTD. ŞTİ.

Kucukbakkalkoy Mah. Selvili Sok. Canan Business No: 4 Kat: 7 Ofis No: 49 Atasehir / ISTANBUL

info@erselenerji.com.tr

info@erselinsaat.com.tr

www.erselinsaat.com.tr