**BACKUP POWER SOLUTIONS:**

Backup power solutions are used *mainly* to counter the crippling effects of EG **power outages** to homes, businesses and offices. When a client is reliant on power in their daily lives or operations this can have negative effects on your ability to work, service customers or conduct daily business and in turn may effect turnovers and cause considerable inconvenience. A Backup Power Solution solves this problem by giving the client an additional source of power when the grid/Escom goes down. The battery bank is kept fully charged by grid power using a special inverter charger. The backup power stored in the battery bank and the power consumed determines the period that the backup power will last**. Inverter chargers** have automatic change overs that switches over to the battery backup when the power goes off and also cuts off the power when the battery bank power reaches a certain level. When the power comes back on, the batteries are charged to float level again. *Typically* a backup system is designed to last for EG 4 hours, 8 hour, 12 hours or 24 hours dependant on the clients requirements/ energy efficient load…

A Backup Power solution consists of a special**inverter charger**and a **battery bank**. The inverter chargers have an automatic change over. Some backup systems also allow for a AC generator/ UTILITY GRID to be connected to it in order to charge the battery back if the power stays off for prolonged periods of time/ when AC utilities comes on etc.

*Scientifically patented calculations apply to the various systems to eg aid preplanning, which can be discussed in consultation (which is an element of training to use systems*).