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Green Production Systems (GPROSYS) Corp.

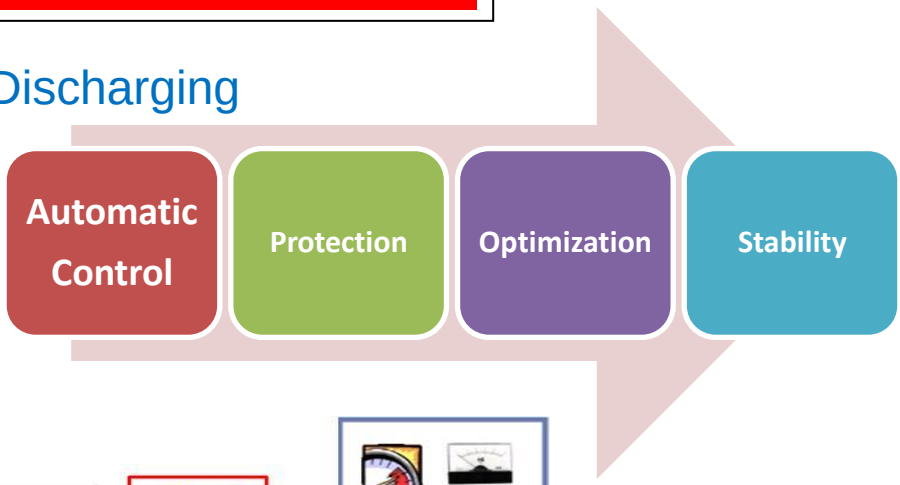
Smart Building Energy Automation (SBEA)

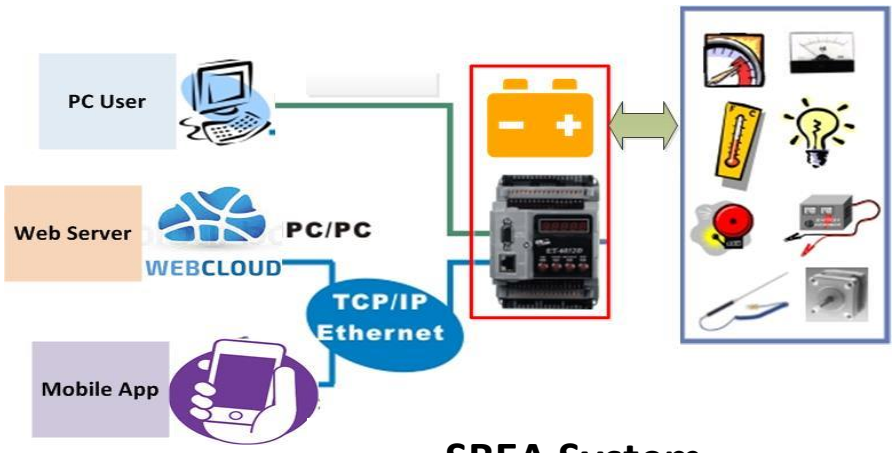
Smart Building Energy Automation (SBEA) with technical building management functions will have an impact on the energy performance of a building with the battery systems. That system will monitor, profile and control of the applications to provide the information needed to make informed decisions based on energy usage patterns. A novel complete building energy management system is linked to battery system in each apartment in a building with resiliency algorithm, and to interface with the battery management.

Energy Technology from GPROSYS

For home, factory, camp, building

Automatic Charging/Discharging
Protection
Monitoring
Stability
Resiliency





SBEA System

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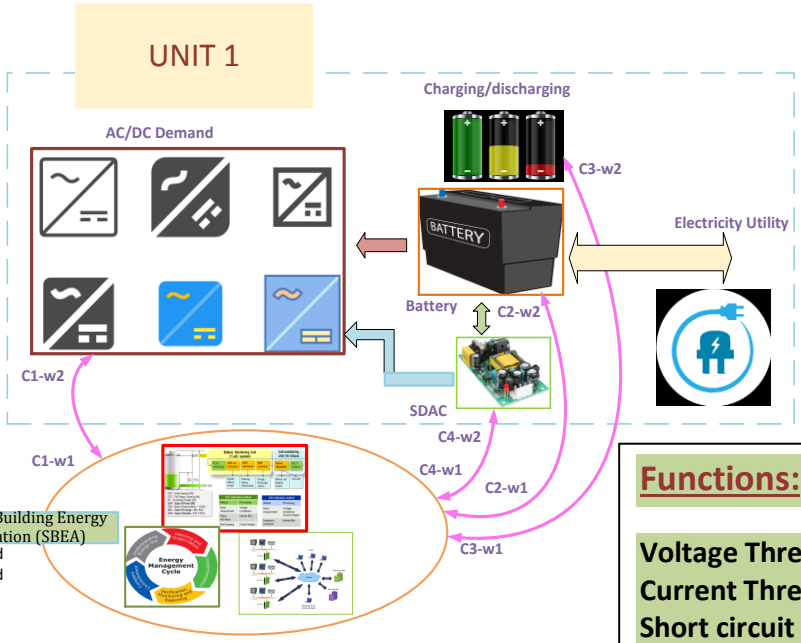
Key Features:

- Integrated input current sensing and limiting (±5%)
- Enabled input setting
- High integration with compensation Input voltage dynamic power management allows compatibility with multiple external adapter types
- Charge based on optimizer for protection and stability rate at any power level.



C1-w1: Control signal 1, way 1 from SEBA to demand
C1-w2: Control signal 1, way 2 to SEBA from demand

C2-w1: Control signal 1, way 1 from SEBA to Battery
C2-w2: Control signal 1, way 2 to SEBA from Battery

C3-w1: Control signal 1, way 1 from SEBA to Charger
C3-w2: Control signal 1, way 2 to SEBA from Charger

C4-w1: Control signal 1, way 1 from SEBA to SDAC
C4-w2: Control signal 1, way 2 to SEBA from SDAC

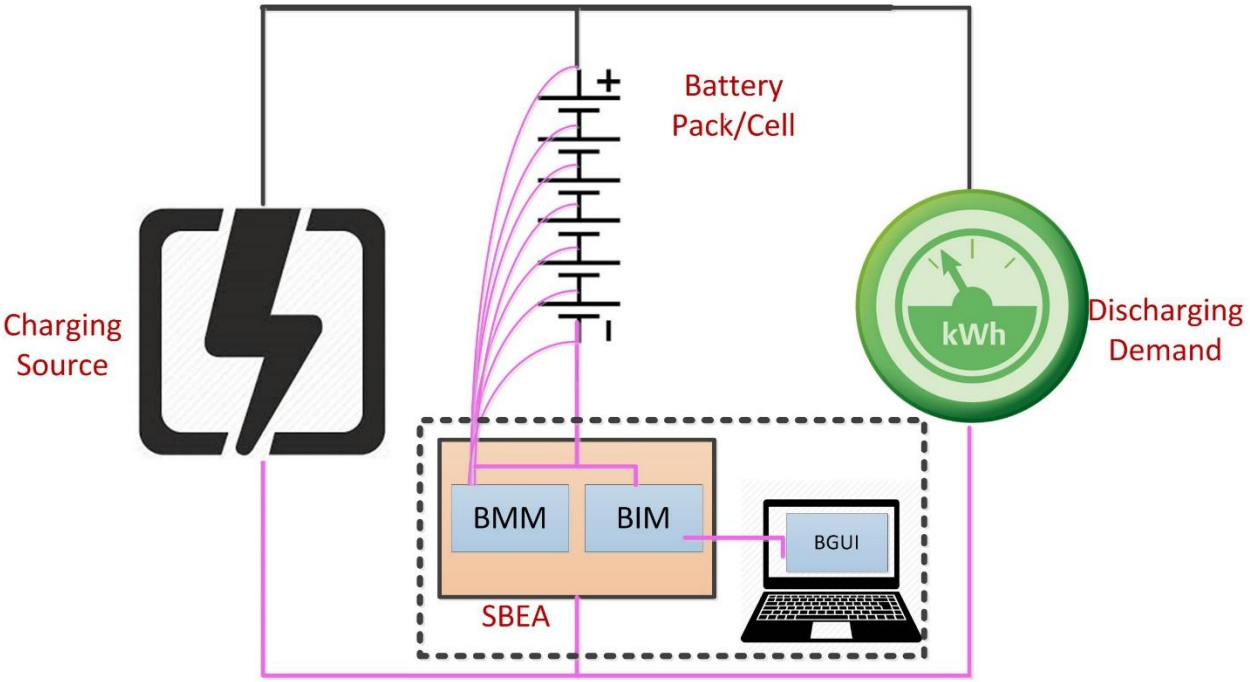
Functions:

Voltage Threshold Settings
Current Threshold Settings
Short circuit protection
Cell Voltages measurement
Pack Voltage measurement
Pack Current measurement
SOC Estimation
Cell Balancing
Over-current cut-off
Under-voltage cut-off

The battery can be charged and discharged simultaneously. When the battery is fully charged, the charge current will be disabled, while the discharge current is still allowed. Likewise, when the battery is fully discharged, the discharge current will be disabled, while the charge current is allowed.

SBEA-M2 Model

	SBEA-M2-3K	SBEA-M2-5K	SBEA-M2-10K
Rated Power	3 kWatt	5 kWatt	10 kWatt
Operating Voltages	12-48 V	12-48 V	12-48 V
Unit Prices	$400	$600	$1200
Delivery time: 2-3 weeks, upon purchase order and 30% down payment Installation: for installation by our team, there will be estimated cost 25% of the unit price. Maintenance: we offer lifetime maintenance and warranty for SBEA, with marginal costs.			
We can customize any other battery size after providing us your load and/or battery specifications.			



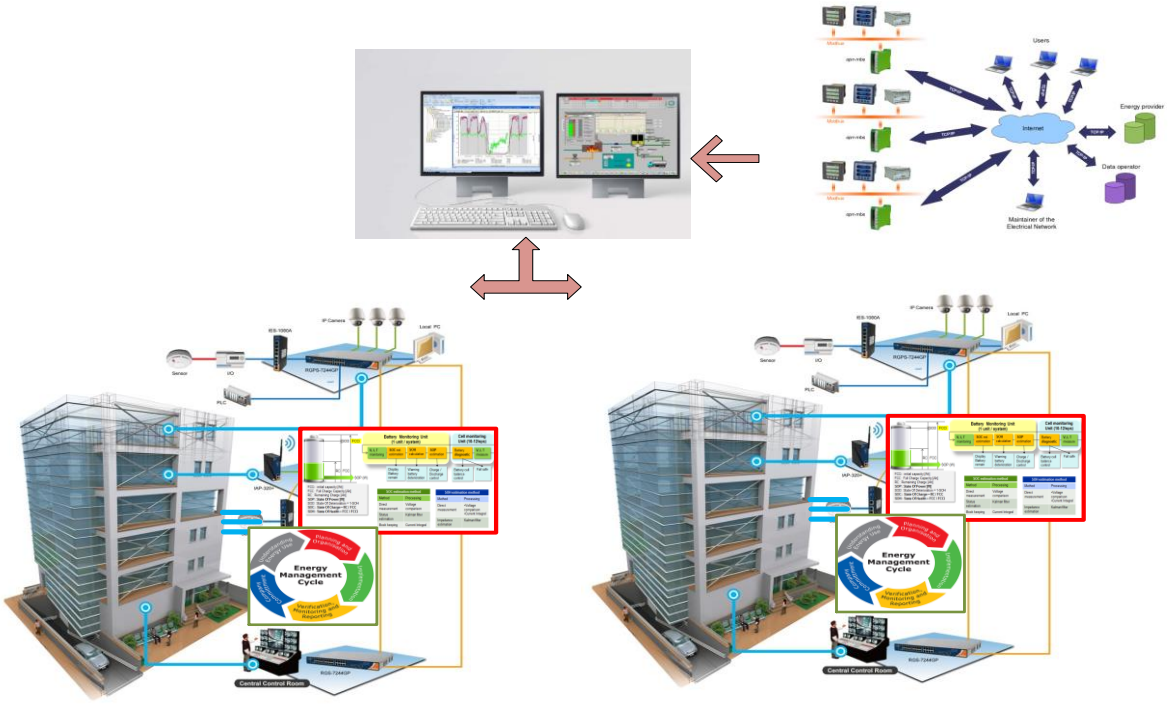
Purple lines are connection and wiring with SBEA (Power, Control and Communications)

SBEA-M2 Components

Module-1 [BMM]: Battery Management Module: it is a PCM circuit for protecting charging and discharging with control continuity and cut-off of the charging and discharging current based on certain assigned current value,
that PCM will be integrated (wired and connected to the battery internally).

Module-2 [BIM]: Battery Interface Module: it is a Raspberry/Arduino Kit that receive the operating battery data to show and process, it will be connected to PCM and battery for voltage and current sensing signals.

Module-3 [BGUI]: Battery Graphical User Interface: it is a user interface program that show and monitor the operating conditions of the battery on PC or Laptop.



Implementation of SBEA in Residential and Commercial Buildings

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