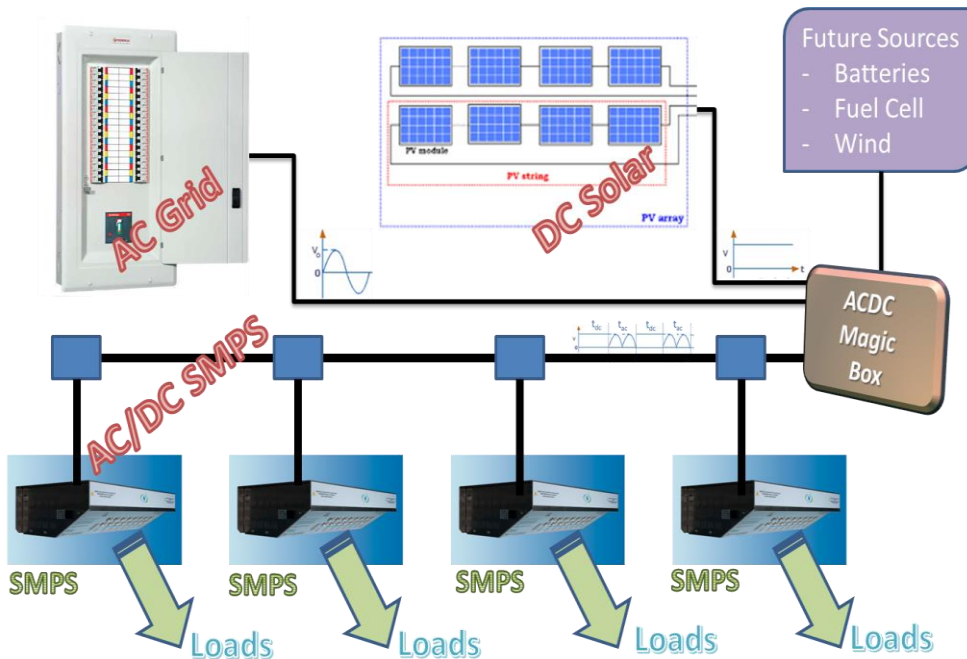


PATENT PENDING



Features

1. Dynamic switching between DC Solar and AC Grid
2. Voltage conversions done by Switch-Mode-Pwr-Supply (SMPS)
3. Able to MPPT connected PV string
4. Designed to be added to existing AC wiring and circuit
5. Scalable design to large PV sources

Benefits

1. System Interface Losses $\ll 1\%$
2. Lower PV related hardware costs by $\gg 50\%$
 - NO HW for AC/DC (Rectifier)
 - Optional HW for DC/AC (Bi-Directional Inverter) Net Metering
3. Easy to integrate PV into existing building AC power distribution
 - Re-use AC wiring and circuit protection
 - Added after 277Vac panel