

#### QUALITY POLICY

It is our commitment to provide the service with the highest standard of safety, quality and reliability that meet the specified requirements and expectations.



KAF Idea Tech Sdn. Bhd.  
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# Wireless Traffic Light Using Solar Energy

## KAF iTAC WIRELESS SOLAR TRAFFIC LIGHT SYSTEM



*KAF iTAC Wireless Solar Traffic Light System is built with state-of-art modern wireless technologies to eliminate obstacles faced in existing conventional wired traffic light control systems.*

*Wireless Solar Traffic Light Controller is completely wireless communicating over radio data being transmitted between master controller and signal group controller.*

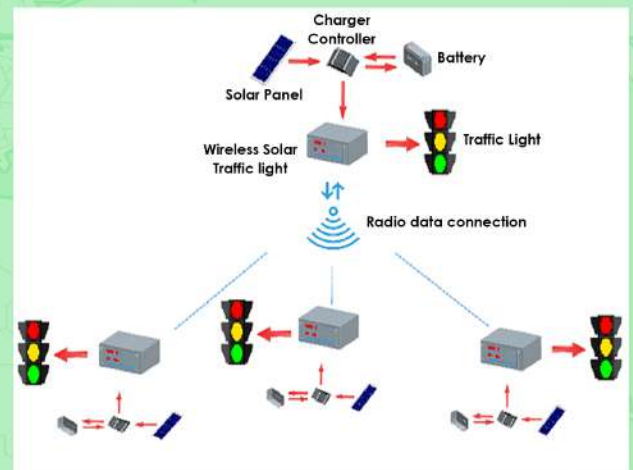
*It is completely solar-powered and environment friendly solution incorporated with all world modern traffic light systems. provide solution that utilizes solar energy to power traffic lights and associated signaling equipment. This system is designed to enhance road safety and reduce energy consumption.*

### Key Benefits:

- Less waiting time hence lower carbon emissions
- Enhanced travel experience with improved efficiency
- Flexible and modular system design
- Adaptive Traffic Light Control
- Real Time Monitoring
- Lowering maintenance cost
- Improved Junction Throughput
- Remote Configuration
- Cycle time optimization
- System Wireless Communication
- Master Controller Functional
- Solar Energy Consumption
- Cost-effective

## Wireless Traffic Light System | Solar Powered | Energy and Cost Saving

### System Operational Drawing for Wireless Traffic Light Controller



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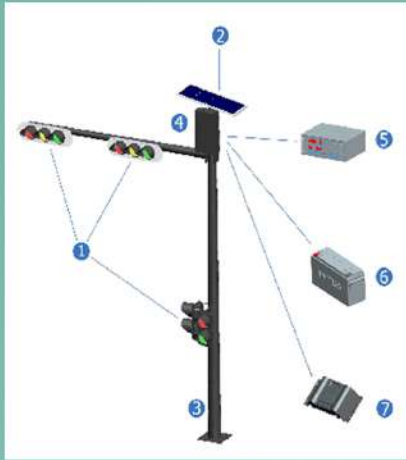
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**COMPONENTS OF WIRELESS SOLAR TRAFFIC LIGHT SYSTEM**



**KAF iTAC Wireless Solar Traffic Light Controller**

1. (Traffic lights) 12V and 24V DC LED traffic lights (vehicle and pedestrian lights).
2. (Solar Panel) High efficiency PV solar panel to collect sunshine energy.
3. (Light Pole) Rugged steel light pole specially designed for traffic.
4. (Cabinet) Steel container for Battery, traffic light controllers and charge controller.
5. (Wireless Solar Traffic Light Controllers) 1 pole CPU/Host controller and others Lamp output/Receiver controllers.
6. (Battery) Power up traffic lights and traffic light controllers with storage energy in the daytime.
7. (Charge Controller) Transfer solar energy to traffic lights, traffic light controllers and battery.

**KAF iTAC WIRELESS TRAFFIC LIGHT**

**SPECIFICATION**

<b>Backup Supply</b>	Provides 5-8 days back up supply in rainy/cloudy days, and average 7-8 hour sun light in sunny days.
<b>System expansion</b>	Controller caters flexible system expansion, with 4 vehicle signal groups per pole (expandable upto 12 poles and 48 vehicle signal groups), 2 WVD channel per pole (expandable upto 12 poles and 24 WVD channel), 2 pedestrian inputs per pole.
<b>Countdown Compatibility</b>	Compatible to 4 individual or 4 redundant wireless countdown.
<b>Wireless Communication Compatibility</b>	Compatible with Wireless Communication Interface (WIWVD).
<b>Safety and Smart Features Configuration</b>	Provide Dynamic Go-Green link traffic controllers, Conflict monitoring, double lights and opposite green detection.
<b>Configuration</b>	iTAC Windows and iTAC Mobile (Android/IoS), Software, compatible with XAITS and Star intelligent transportation systems, compatible with REACT system.
<b>Mechanical Features</b>	Traffic signal controller complete with, Earthing system, 15 KA surge protection device, can be easily connected and interfaced to UTC existing devices.

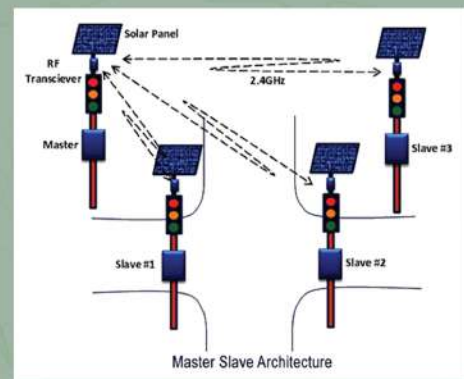
**iTAC Wireless CPU Controller (Master Slave) Specification**

<b>Microprocessor</b>	32 bit intelligent microprocessor based.
<b>Wireless CPU Features</b>	wireless traffic light controller with embedded 3 vehicle signal groups, 2 WVD channel, 2 pedestrian inputs.
<b>Vehicle Actuated</b>	Support VA Multiplan i.e. VA Min, VA Max, VA Gap optimized for (48x10x7) discrete time windows, compatible with compatible with fixed time and dynamic timing Wireless Countdown System i.e Dash Countdown, Full display countdown, Jump countdown, Pedestrian system with Exclusive VA Allocation, Integrated Pedestrian Control.
<b>Amber flashing</b>	Compatible.
<b>Log memory</b>	Supports up to 3-4 years (fault logs & data).
<b>Communication</b>	Bluetooth, USB Port, RS232, RF Wireless Communication.
<b>Power Consumption</b>	150 Watt, Half Cut mono perc, mono crystalline solar panel.
<b>Capacity</b>	Deep Cycle 150AH tall tubular, sealed Lead acid battery.
<b>Charger Rate</b>	30A solar charge controller.

**iTAC Wireless Lamp Output Controllers (Slave) Specification**

<b>Microprocessor</b>	8 bit intelligent microprocessor based.
<b>Wireless CPU Features</b>	wireless traffic light controller with embedded configurable 1-4 vehicle signal groups, 2 WVD channel, 2 pedestrian inputs, intelligent CPU heartbeat detection.
<b>Communication</b>	RF Wireless Communication.
<b>Amber flashing,</b>	Compatible with independent flash yellow.
<b>Power Consumption</b>	150 Watt, Half Cut mono perc, mono crystalline solar panel.
<b>Capacity</b>	Deep Cycle 150AH tall tubular, sealed Lead acid battery.
<b>Charger Rate</b>	30A solar charge controller.

**Master Slave Architecture of Junction Pole**



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