KINGLY LED

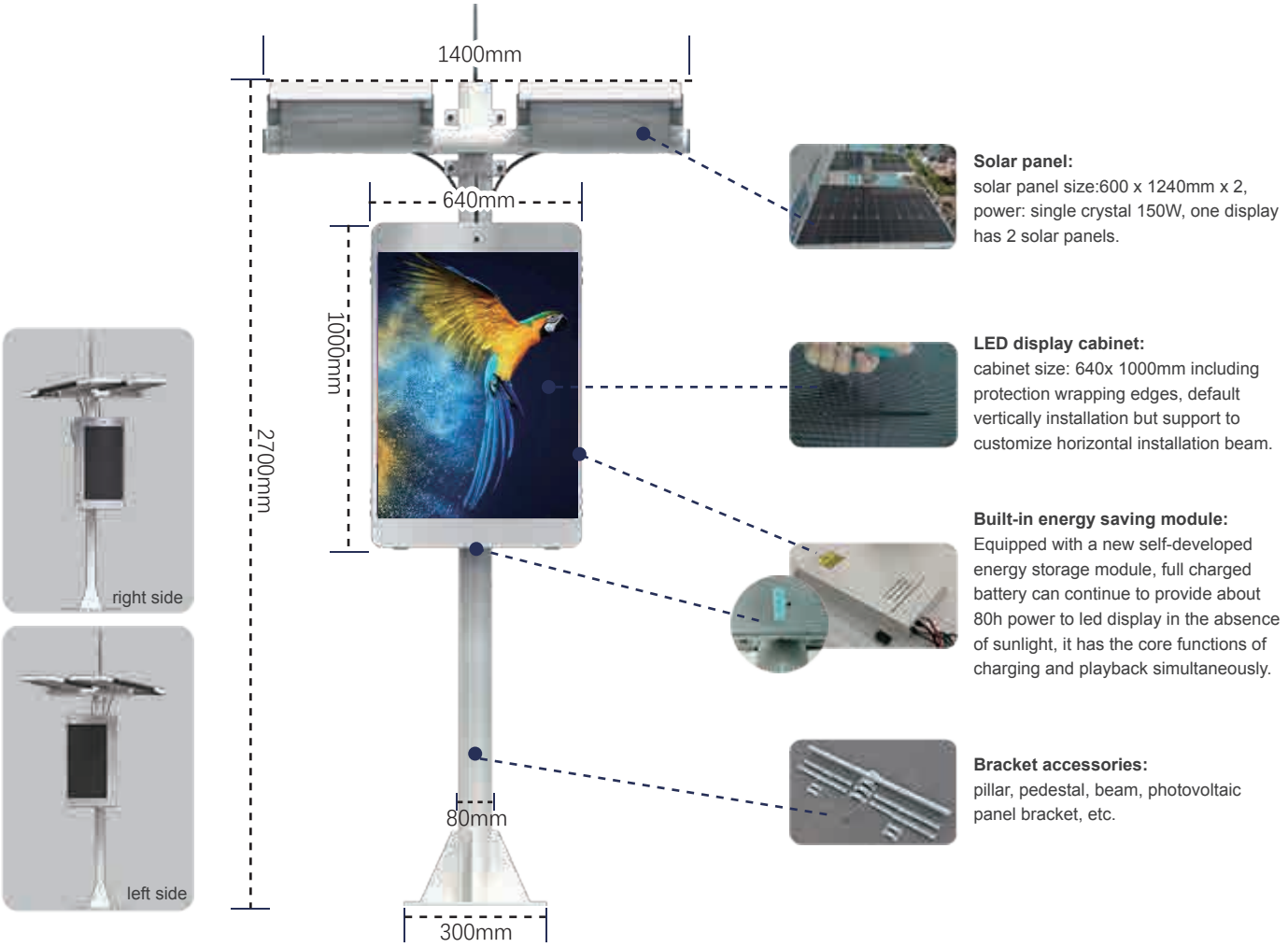


# K SOLAR

## Series

## PV Energy Storage LED Display

# K-SOLAR PV Energy Storage LED Display






**Solar panel:**
solar panel size:600 x 1240mm x 2, power: single crystal 150W, one display has 2 solar panels.



**LED display cabinet:**
cabinet size: 640x 1000mm including protection wrapping edges, default vertically installation but support to customize horizontal installation beam.



**Built-in energy saving module:**
Equipped with a new self-developed energy storage module, full charged battery can continue to provide about 80h power to led display in the absence of sunlight, it has the core functions of charging and playback simultaneously.



**Bracket accessories:**
pillar, pedestal, beam, photovoltaic panel bracket, etc.

## Application Scenarios

Municipal roads, high-way entrance, ad network, billboard signage, meteorology and hydrology, square park, stations and piers, greenway construction site, community school, reservoir river, villages and unit base, factory areas, scenic spots, etc.

## Product Cases



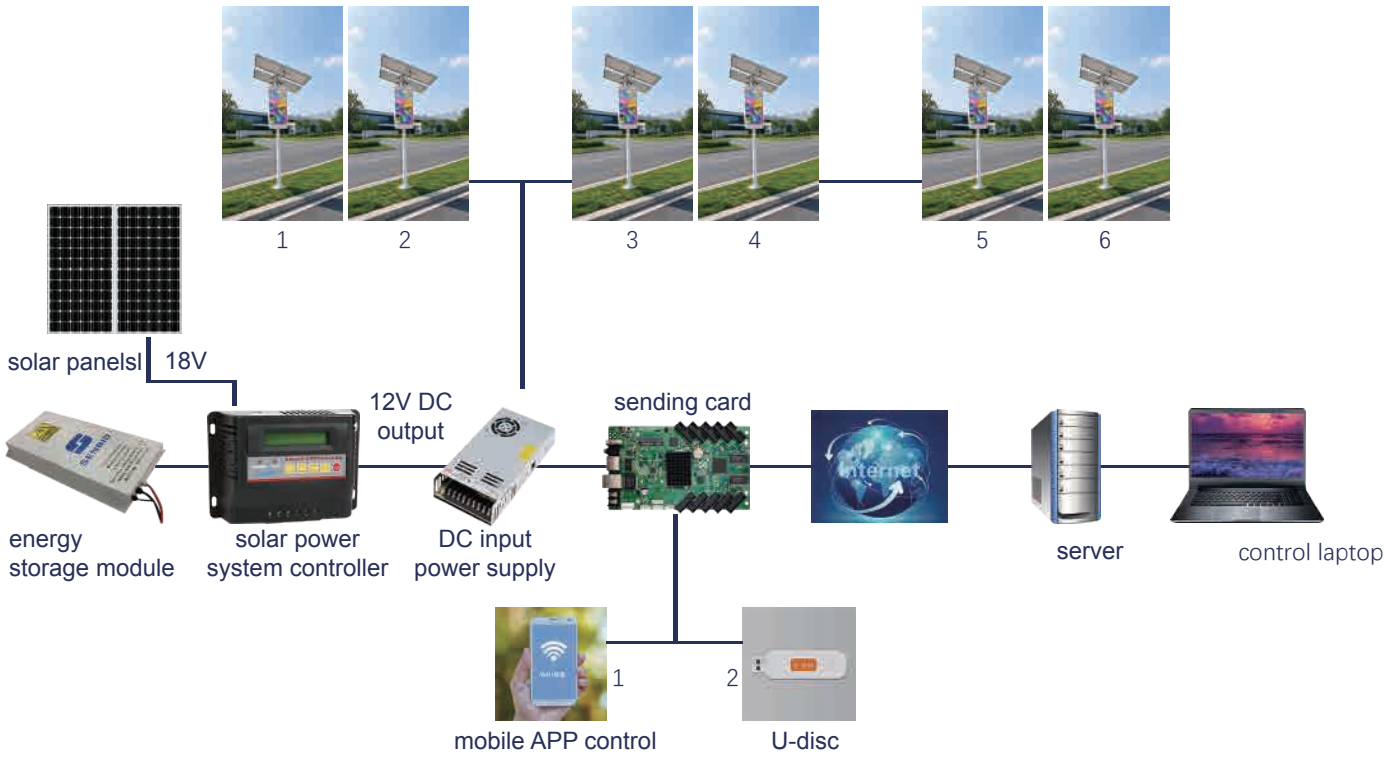



# Product advantages and features

Solar PV & energy storage power supply, no grid access, energy saving, environmental protection & simple installation.

- Achieve free electricity usage
- Automatic Brightness Adjustment
- High Refresh Rate ＞3840Hz
- Eliminate Power Access Difficulties & Reduce Wiring Costs
- Automatic Switching Between Solar Power & Mains Electricity
- Battery Level Indicator, Ultra-long Playback Duration
- Ultra-wide Viewing Angle H/V 140°
- High Gray Scale 14-16 bits
- Cluster Cloud Control, 4G/Tablet Wireless, Multimedia Interaction
- Energy Saving:Common Cathode Small Pixel Pitch, 50% Lower Power Consumption
- Easy Installation & Front Maintenance
- Synchronized Audio & Video Output
- IP65 Protection Rating
- High Definition Display

# Photovoltaic Display System Schematic



| K-Solar Outdoor PV Energy Storage LED Display Parameters | |
|---|---|
| pixel pitch | 3.84mm-3.84mm |
| pixel density (dot/m²) | 67816 |
| Led lamps | SMD1921 high brightness common cathode led lamps |
| module size（mm） | 200*200mm |
| module resolution (pixels) | 52*52 |
| Entire display size（mm） | 640*120*1000mm |
| Display size（mm） | 600*120*800mm |
| Service method | Front service, modular installation |
| Scan mode | 13 scan |
| Refresh rate | ≥3840hz |
| Largest brightness | 6000-6500 cd/m² |
| Synchronization function | Synchronize on-site video and voice announcements via 4G (optional) |
| average power consumption | 50-80w/pcs |
| Grey level | 65536（15bit） |
| Power supply working voltage | Input DC 12V 150W (output DC 3.8v+2.8v) |
| PCB thickness | 4 layers private mode pcb with 1.6mm thickness |
| connector | copper gilding |
| IP level | Screen IP65, cabinet IP54 |
| Grey scale | 256 degrees |
| mounting space size（mm） | 1400*1240*2700mm |
| best view distance | 3m - 100m |
| NW | ＞50kg |
| Installation method | Pillar, hanging, embedded |
| storage environment | temperature: -25℃~+70℃; humidity: 15%~90% RH. |
| Control method | 4g, wifi, u disk and cloud cluster control, support to set automatically switch on/off time |
| External equipment | Weather, wind speed, temperature and humidity, light sensor, PM2.5, soil composition and other information collection devices (optional) |
| loudspeaker | The display has builtin loudspeaker and support common audio format |
| Cooling system | Builtin thermostatic fan (constant temperature index: 1-25°1500 RPM, 25-35°3000 RPM, 35-45°4000 RPM,>45° 5000 RPM) |

| PV Energy Storage Supporting Parameter | | | |
|---|---|---|---|
| Solar Panel Bracket | 1 pcs including screws and screw driver | Solar panel cable | 1pcs 1-to-2 waterproof power cable with aviation plugs |
| Rated Voltage | 12.8v | largest duration working | fully charged battery can work about 80h in rainy days |
| Rated Capacity | 100Ah | recharging cycle file | ≥3000times |
| working voltage rage | 10-14.6V | battery weight | about20kg |
| Charging Time | about 8-12h | power remain indication | external intelligent power indication window |
| city electricity backup | 220V AC convert to 12V DC (optional configuration) | cooling method | entire display use thermostatic fan and natural cooling |
| solar panel size (mm) | 600*1240mm | altitude | ≥4000m |
| solar panel power | Single crystal 18V-150W | max charge capacity | 1280wh |
| solar panel quantity | 2pcs | standard discharge current | 45A |

Parameters subject to update. Refer to actual product & technical documents.

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