# PROFESSIONAL
# LED PHOTOVOLTAIC ENERGY-SAVING DISPLAY SOLUTION PROVIDER

## The new technology of PV energy-saving display equipment shocked launching

- free electricity bill
- no wiring
- high energy saving
- easy disas-sembling
- front service
- cloud remote control
- long lasting working time
- front and back IP65, side IP54

Patented product
Counterfeiting is prohibited

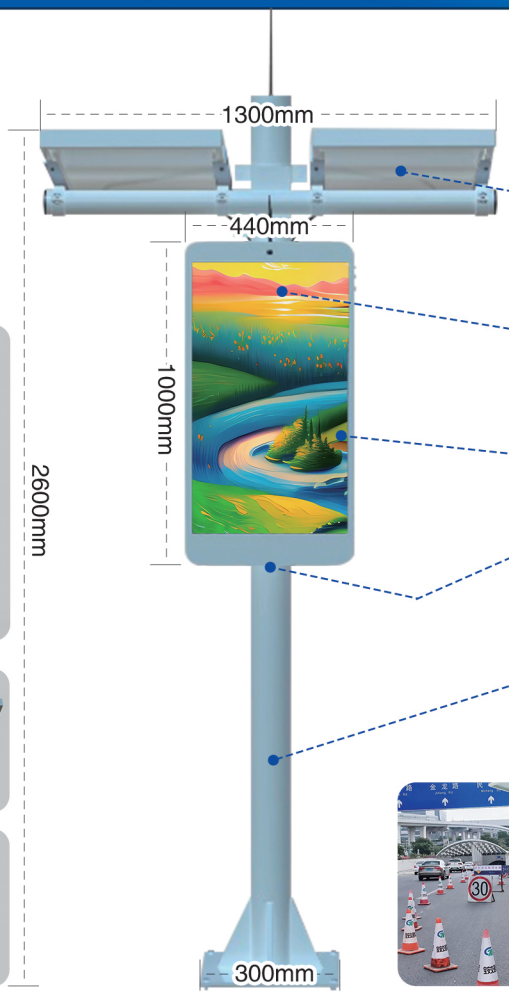
## Product advantages and features

- 100% free electricity bill
- avoid the difficulty and cost of display wiring system
- gray level is as high as 14-16 bits
- Brightness self adjustment in wide ranges to meet different environment requirements
- over 3840Hz high refresh rate
- outdoor smalle pixel pitch screen with high pixel density
- easy installation and modules front service design
- cluster cloud control via 4G to achieve videos, pictures and text multiple interaction
- Audio and video synchronization
- support both solar power and the mains electricity systems
- protection level IP65
- indicate the percentage of stored power, long lasting working time
- Large view angle: (H/V) 140°/140°
- outdoor common cathode small pixel display can save 50% than the same model traditional led display power consumption

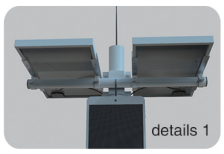
## Applications

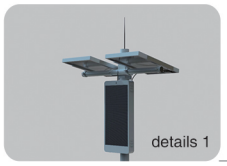
Municipal roads, high-way entrance, ad network, billboard signage, meteorology and hydrology, square park, stations and piers, greenway construction site, community school, reservoir river, villages and unit base, factory areas, scenic spots, etc.

# Photovoltaic energy saving display (F series F3–standard type)



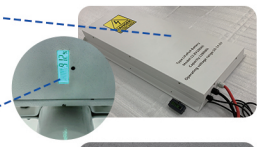





**Solar panel:**
solar panel size: 500mm x 1000mm x 2,
power: single crystal 100W, one display has 2 solar panels.

**LED display cabinet:**
cabinet size: 440mm x 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 100h power to led display in the absence of sunlight, it has the core functions of charging and playback simultaneously.

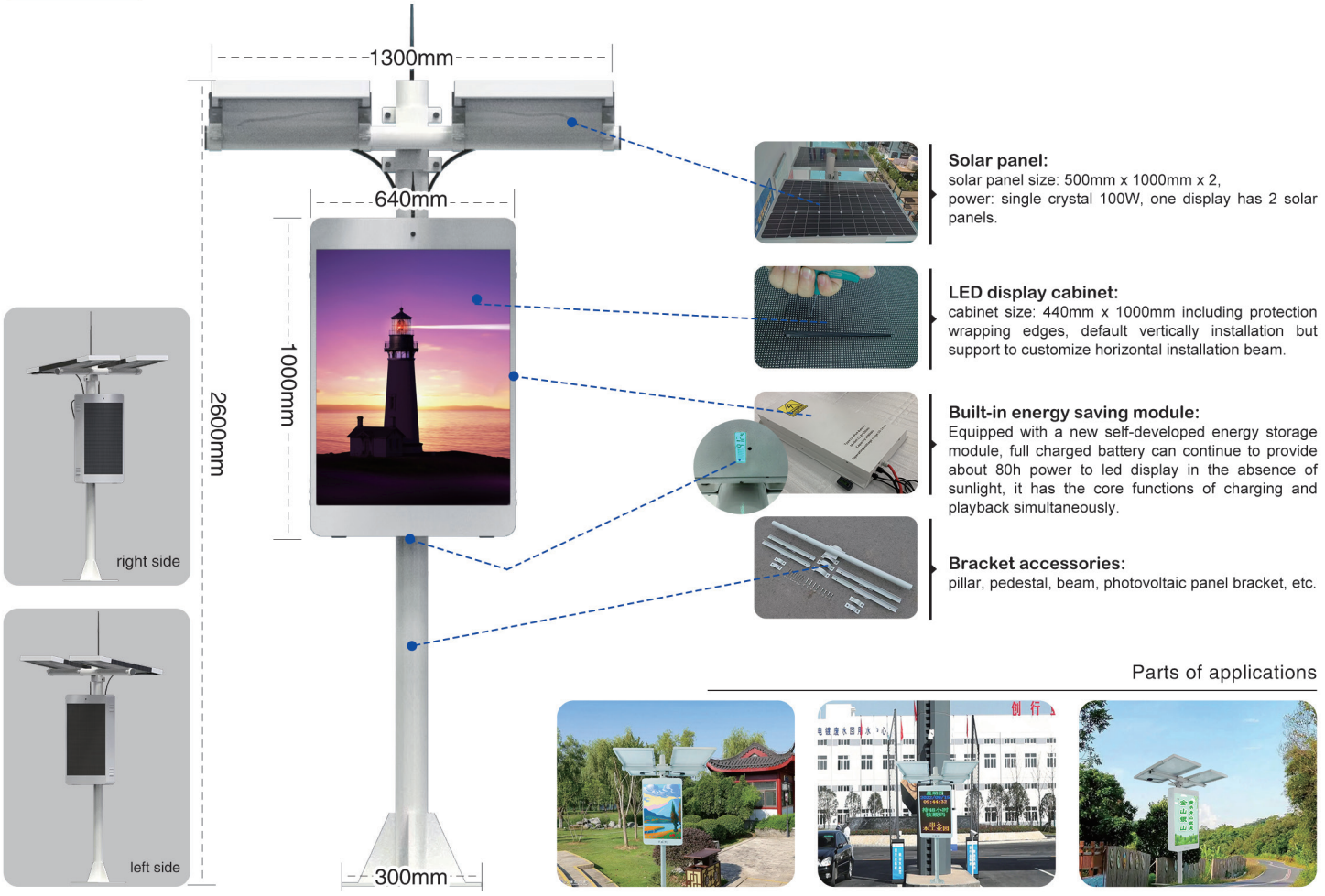
**Bracket accessories:**
pillar, pedestal, beam, photovoltaic panel bracket, etc.

Parts of applications

| | | | | |
|---|---|---|---|---|
| solar panel bracket | 1 pcs including screws and screw driver | | solar panel cable | 1 pcs one tows two waterproof power cable with aviation plugs |
| rated voltage | 12.8V | | largest duration working | fully charged battery can work about 100h in rainy days |
| rated capacity | 100AH | | recharging cycle file | ≥3000times |
| working voltage rage | 10-14.6V | | battery weight | about 20KG |
| recharging 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 | 500mm*1000mm | | altitude | ≥4000M |
| solar panel power | Single crystal 18V-100W | | max charge capacity | 1280Wh |
| solar panel quantity | 2PCS | | standard discharge current | 45A |

| F series F3-standard type outdoor optical storage LED energy saving display parameter | | | | |
|---|---|---|---|---|
| pixel pitch | 3.84mm-3.84mm | | Power supply working voltage | Input DC 12V 150W (output DC 3.8v+2.8v) |
| pixel density | 67816 dots/sqm | | PCB thickness | 4 layers private mode pcb with 1.6mm thickness |
| Led lamps | SMD1921 high brightness common cathode led lamps | | connector | copper gilding |
| module size | 200mm*200mm | | IP level | Screen IP65, cabinet IP54 |
| module resolution | 52*52 dots | | Grey scale | 256 degrees |
| Entire display size | 440mm*120mm*1000mm | | mounting space size | (l*w*h)1300mm*1000mm*2600mm |
| Screen resolution | 400mm*120mm*800mm | | best view distance | 3m-100m |
| Service method | Front service, modular installation | | NW | >45kg |
| Scan mode | 13s | | Installation method | Pillar, hanging, embedded embedded |
| Refresh rate | ≥3840Hz | | storage environment | temperature：-25℃~+70℃；humidity：15%~90%RH. |
| Largest brightness | 6000-6500cd/㎡ | | Control method | 4g, wifi, u disk and cloud cluster control, support to set automatically switch on/off time |
| Synchronization function | Support 4G backstage synchronize live video and voice call system (optional) | | External equipment | Weather, wind speed, temperature and humidity, light sensor, PM2.5, soil composition and other information collection devices (optional) |
| average power consumption | 40-60 w/set | | loudspeaker | The display has builtin loudspeaker and support common audio format |
| Grey level | 65536 (15bit) | | Cooling system | Builtin thermostatic fan (constant temperature index: 1-25°1500 RPM、25-35°3000 RPM、35-45°4000 RPM、>45° 5500 RPM |

# Photovoltaic energy saving display (F series F3–Pro type)




**Solar panel:**
solar panel size: 500mm x 1000mm x 2,
power: single crystal 100W, one display has 2 solar panels.

**LED display cabinet:**
cabinet size: 440mm x 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.

Parts of applications

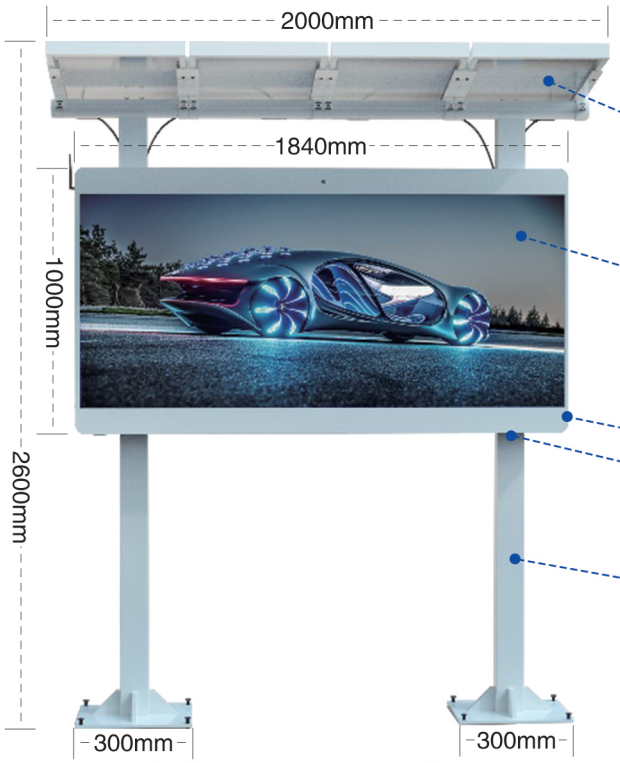


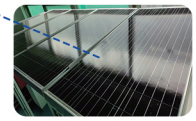


| | | | | |
|---|---|---|---|---|
| solar panel bracket | 1 pcs including screws and screw driver | | solar panel cable | 1 pcs one tows two waterproof power cable with aviation plugs |
| rated voltage | 12.8V | | largest duration working | fully charged battery can work about 80h in rainy days |
| rated capacity | 100AH | | recharging cycle file | ≥3000times |
| working voltage rage | 10-14.6V | | battery weight | about 20KG |
| recharging 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 | 500mm*1000mm | | altitude | ≥4000M |
| solar panel power | Single crystal 18V-100W | | max charge capacity | 1280Wh |
| solar panel quantity | 2PCS | | standard discharge current | 45A |

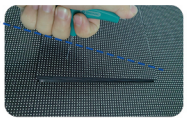
| F series F3-Pro type outdoor optical storage LED energy saving display parameter | | | | |
|---|---|---|---|---|
| pixel pitch | 3.84mm-3.84mm | | Power supply working voltage | Input DC 12V 150W (output DC 3.8v+2.8v) |
| pixel density | 67816 dots/sqm | | PCB thickness | 4 layers private mode pcb with 1.6mm thickness |
| Led lamps | SMD1921 high brightness common cathode led lamps | | connector | copper gilding |
| module size | 200mm*200mm | | IP level | Screen IP65, cabinet IP54 |
| module resolution | 52*52 dots | | Grey scale | 256 degrees |
| Entire display size | 640mm*120mm*1000mm | | mounting space size | (l*w*h)1300mm*1000mm*2600mm |
| Screen resolution | 600mm*120mm*800mm | | best view distance | 3m-100m |
| Service method | Front service, modular installation | | NW | >50kg |
| Scan mode | 13s | | Installation method | Pillar, hanging, embedded embedded |
| Refresh rate | ≥3840Hz | | storage environment | temperature：-25℃~+70℃；humidity：15%~90%RH. |
| Largest brightness | 6000-6500cd/㎡ | | Control method | 4g, wifi, u disk and cloud cluster control, support to set automatically switch on/off time |
| Synchronization function | Support 4G backstage synchronize live video and voice call system (optional) | | External equipment | Weather, wind speed, temperature and humidity, light sensor, PM2.5, soil composition and other information collection devices (optional) |
| average power consumption | 50-80 w/set | | loudspeaker | The display has builtin loudspeaker and support common audio format |
| Grey level | 65536 (15bit) | | Cooling system | Builtin thermostatic fan (constant temperature index: 1-25°1500 RPM、25-35°3000 RPM、35-45°4000 RPM、>45° 5500 RPM |

# Photovoltaic energy saving display (F series F3–Max type)

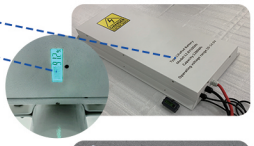


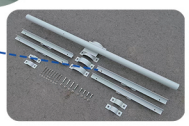
**Solar panel:**
solar panel size: 500mm x 1000mm x 4,
power: single crystal 100W, one display has 2 solar panels.



**LED display cabinet:**
cabinet size: 1840mm x 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.

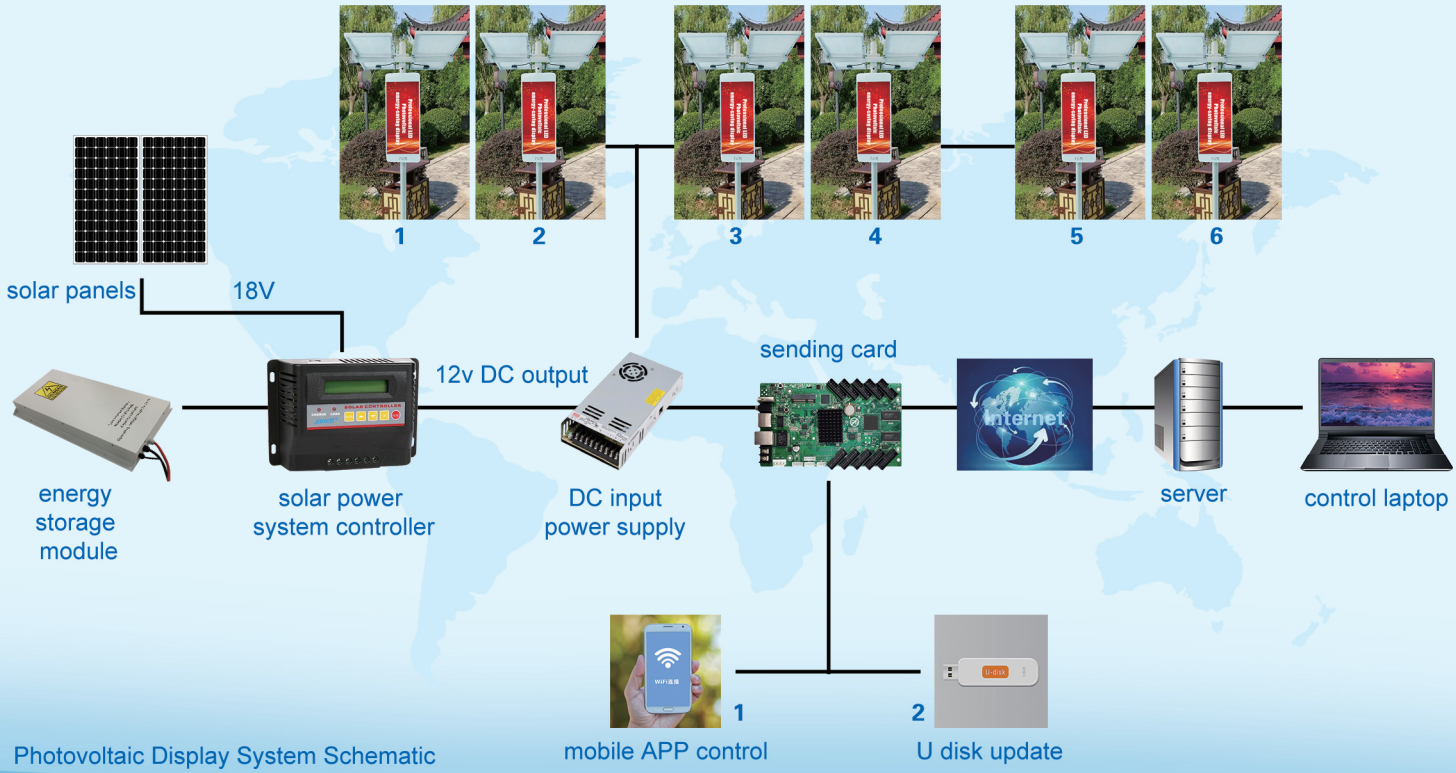


Parts of applications

| | | | | |
|---|---|---|---|---|
| solar panel bracket | 1 pcs including screws and screw driver | | solar panel cable | 1 pcs one tows two 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 | 280AH | | recharging cycle file | ≥3000times |
| working voltage rage | 10-14.6V | | battery weight | about 27KG |
| recharging time | about 9-13h | | 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 | 500mm*1000mm | | altitude | ≥4000M |
| solar panel power | Single crystal 18V-100W | | max charge capacity | 3584Wh |
| solar panel quantity | 4PCS | | standard discharge current | 140A |

| F series F3-Max type outdoor optical storage LED energy saving display parameter | | | | |
|---|---|---|---|---|
| pixel pitch | 3.84mm-3.84mm | | Power supply working voltage | Input DC 12V 150W (output DC 3.8v+2.8v) |
| pixel density | 67816 dots/sqm | | PCB thickness | 4 layers private mode pcb with 1.6mm thickness |
| Led lamps | SMD1921 high brightness common cathode led lamps | | connector | copper gilding |
| module size | 200mm*200mm | | IP level | Screen IP65, cabinet IP54 |
| module resolution | 52*52 dots | | Grey scale | 256 degrees |
| Entire display size | 1840mm*120mm*1000mm | | mounting space size | 2000mm*1000mm*2600mm |
| Screen resolution | 1800mm*120mm*800mm | | best view distance | 3m-100m |
| Service method | Front service, modular installation | | NW | >100kg |
| Scan mode | 13s | | Installation method | Pillar, hanging, embedded embedded |
| Refresh rate | ≥3840Hz | | storage environment | temperature：-25℃~+70℃；humidity：15%~90%RH. |
| Largest brightness | 6000-6500cd/㎡ | | Control method | 4g, wifi, u disk and cloud cluster control, support to set automatically switch on/off time |
| Synchronization function | Support 4G backstage synchronize live video and voice call system (optional) | | External equipment | Weather, wind speed, temperature and humidity, light sensor, PM2.5, soil composition and other information collection devices (optional) |
| average power consumption | 100-150W/set | | loudspeaker | The display has builtin loudspeaker and support common audio format |
| Grey level | 65536 (15bit) | | Cooling system | Builtin thermostatic fan (constant temperature index: 1-25°1500 RPM、25-35°3000 RPM、35-45°4000 RPM、>45° 5500 RPM |

# Make photovoltaic storage display,
# Make energy saving big led screen, preferred




Photovoltaic Display System Schematic

## Solar energy self-generated power storage display screen (abbreviation: photovoltaic storage display)

## Solve the four pain points of using the screen

**Solve the need to install a led display while the site has no electricity**

**Solve the need to install a led display while the site has electricity but has no power connection permit**

**Save the cost to install a led display while the site has electricity and power connection permit**

**Save the power consumption cost during display usage**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