KINGLY LED

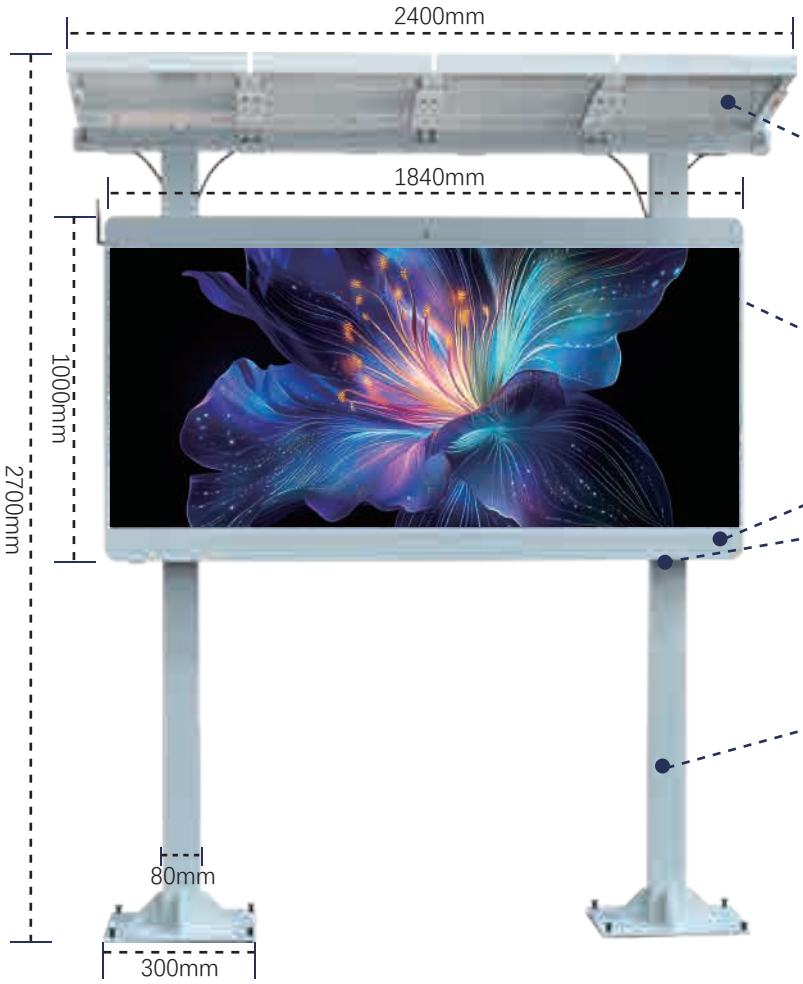


K SOLAR

MAX Series

PV Energy Storage LED Display

K-SOLAR MAX PV Energy Storage LED Display





Solar panel:
solar panel size: 600 x 1240mm x 4, power: single crystal 150W, one display has 4 solar panels.



LED display cabinet:
cabinet size: 1840 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.





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



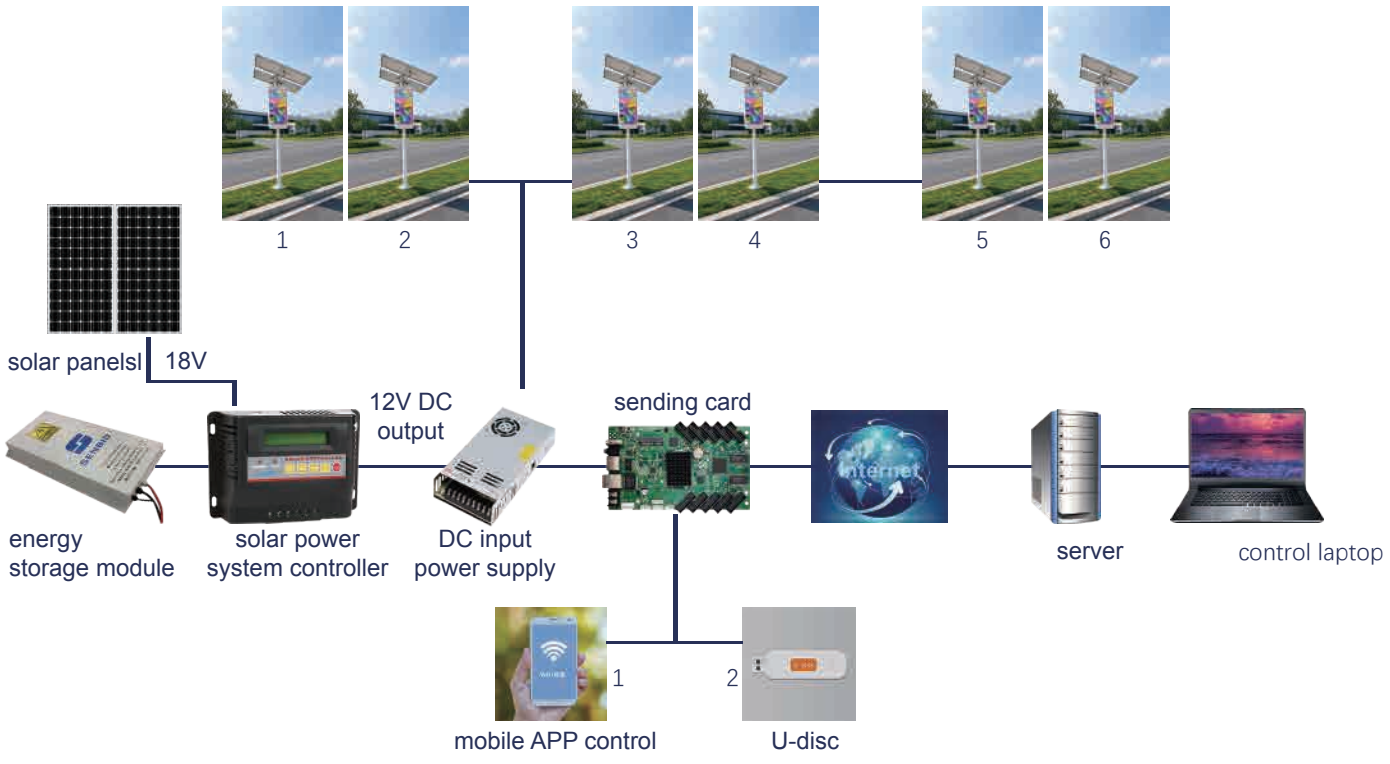



Product advantages and features

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 Max 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）	1840*140*1000mm
Display size（mm）	1800*140*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	100-150w/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）	2400*1240*2700mm
best view distance	3m - 100m
NW	＞100kg
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	2pcs 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	314Ah	recharging cycle file	≥3000times
working voltage rage	10-14.6V	battery weight	about27kg
Charging 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 (mm)	600*1240mm	altitude	≥4000m
solar panel power	Single crystal 18V-150W	max charge capacity	4000wh
solar panel quantity	4pcs	standard discharge current	140A

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

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