



Nova Future Technology Co.,Ltd

*Building the Next Generation of
Renewable Energy*

ALL-IN-ONE SOLAR SOLUTION

2025 Edition



nfsolar.net



NF-YT-L

2025

Dual-Glass

22.8%

Highest conversion efficiency

0.3%

Power tolerance

0.43%

First-year power degradation

2~3

Rainy Days Backup

Charge **20+%** faster with Dual-Glass,
ensuring all-weather power.

- Dual-Glass Design: +20% Energy Intake
- Ultra-High Efficacy: 180lm/W
- Superior Brightness, 50% Less Energy
- Advanced Power Storage
- 2-3 Rainy Days Backup



Lighting Parameters			
Models Types	NF-YT-L60	NF-YT-L80	NF-YT-L100
Lumens	10200lm (60W/280pcs LED)	13600lm (80W/280pcs LED)	17000lm (100W/280pcs LED)
Solar Panel	mono crystal, 120w/18v	mono crystal, 150w/18v	mono crystal, 180w/36v
Lithium Battery	768WH/12.8V	922WH/12.8V	1152WH/25.6V
Controller	MPPT(PIR)		
CCT	3000-6500K		
CRI	>70RA		
Charging Time	4-6 hours		
Working Time	2-4 rainy days		
Material	Die-casting Aluminium		
IP Rating	IP65		
Mounting Height	5-12m		
Mounting Distance	12-15m	15-20m	15-20m

Lighting Parameters			
Models Types	NF-YT-L60	NF-YT-L80	NF-YT-L100
Lumens	10200lm (60W/280pcs LED)	13600lm (80W/280pcs LED)	17000lm (100W/280pcs LED)
Solar Panel	mono crystal, 120w/18v	mono crystal, 150w/18v	mono crystal, 180w/36v
Lithium Battery	768WH/12.8V	922WH/12.8V	1152WH/25.6V
Controller	MPPT(PIR)		
CCT	3000-6500K		
CRI	>70RA		
Charging Time	4-6 hours		
Working Time	2-4 rainy days		
Material	Die-casting Aluminium		
IP Rating	IP65		
Mounting Height	5-12m		
Mounting Distance	12-15m	15-20m	15-20m



30-100w
Various Model Preference

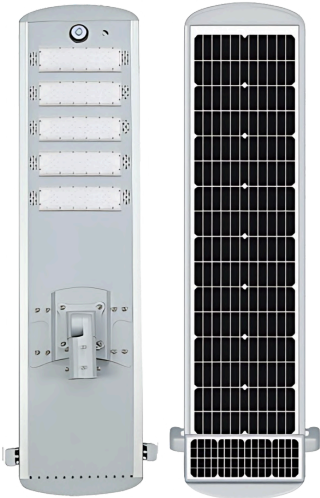
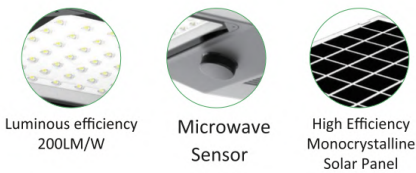
200lm/w
Supreme Lighting Efficiency

<1%
First-year power degradation

3~5
Rainy Days Backup

Experience truly **maintenance-free illumination** with our automatic self-cleaning solar light.

- 2500+ charge cycles
- Supreme Lighting Efficiency: 200lm/W
- Superior Brightness, 50% Less Energy
- Advanced Power Storage
- 3-5 Rainy Days Backup



Lighting Parameters

Models Types	NF-LKJ-30	NF-LKJ-40	NF-LKJ-60	NF-LKJ-80	NF-LKJ-100
Lumens	6000lm (30W/96pcs SMD 3030)	8000lm (40W/144pcs SMD 3030)	12000lm (60W/240pcs SMD 3030)	16000lm (80W/240pcs SMD 3030)	20000lm (100W/288pcs SMD 3030)
Solar Panel	monocrystalline 18V/45W,890*348mm	monocrystalline 18V/60W,1233*373mm	monocrystalline 18V/80W,1025*398mm	monocrystalline 18V/100W,1755*348mm	monocrystalline 18V/120W,2100*348mm
Lithium Battery	243WH/3.2V	320WH/3.2V	384WH/12.8V	576WH/12.8V	768WH/12.8V
Controller	MPPT boost controller		MPPT(PIR)		MPPT
CCT	3000-6500K				
CRI	>70RA				
Charging Time	4-6 hours				
Working Time	3-5 rainy days				
Material	Die-casting Aluminium				
IP Rating	IP65				
Mounting Height	6-8 meters	8-10 meters	10-12 meters	10-14 meters	10-14 meters

Stellar Series

2025

Solar Pole

30-100w

Various Model Preference

200lm/w

Supreme Lighting Efficiency

<1%

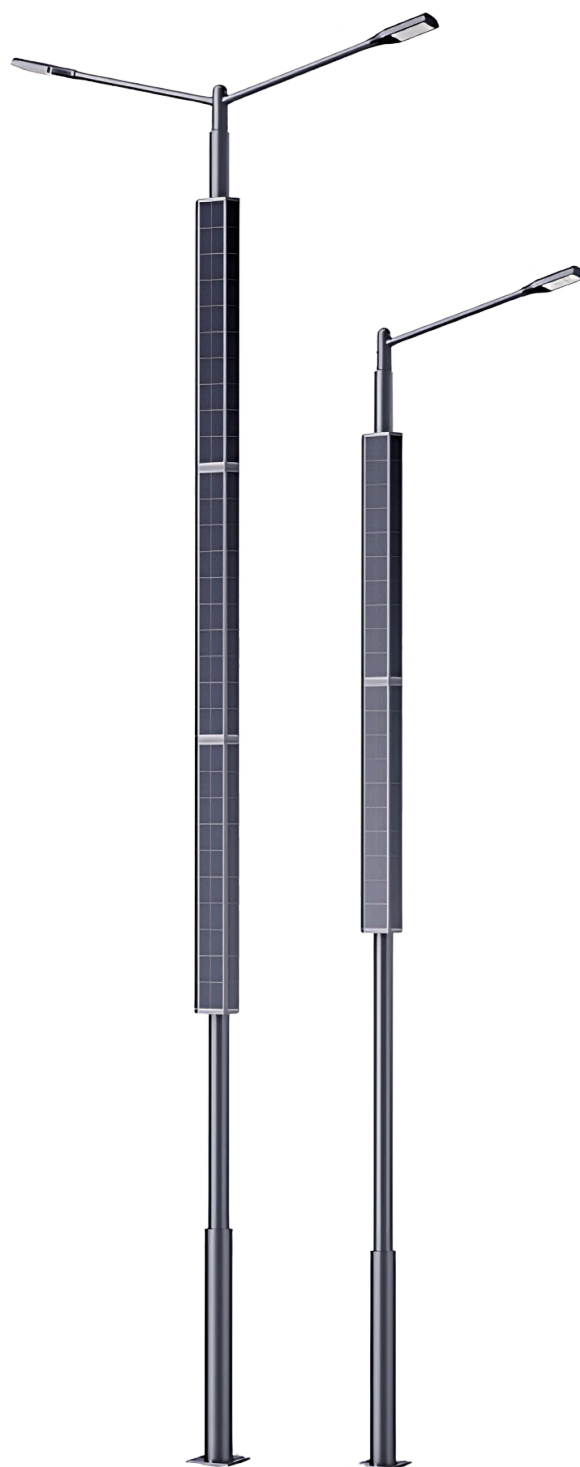
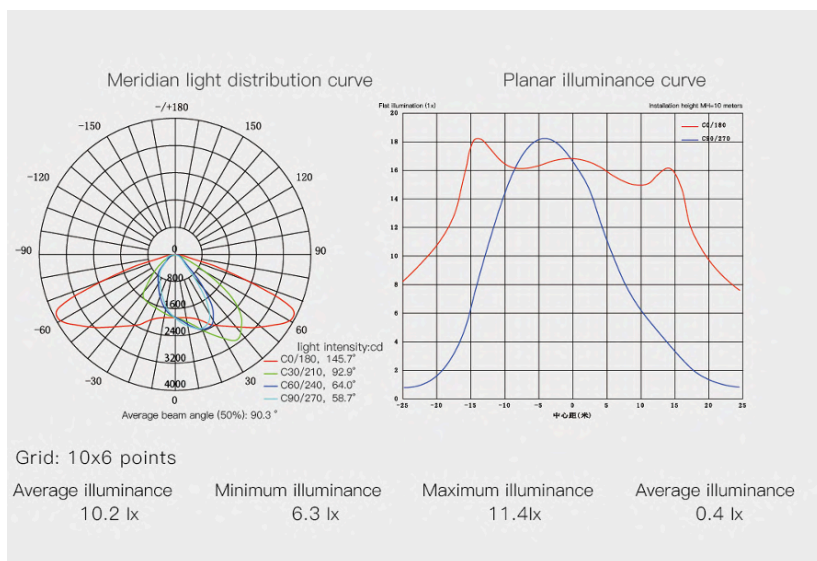
First-year power degradation

2 faces

Flange Design

Integrated solar streetlight, applicable for over **60W** LED.

- Installed on steel pole with triple sides, south, east, west, achieve maximum charging capacity.
- Dual base flange design.
- Battery storage controller system can either install on top of the pole or choose anti-theft battery base to install at the bottom.



80-150w

Various Model Preference

200lm/w

Supreme Lighting Efficiency

<1%

First-year power degradation

3~5

Rainy Days Backup

Premium Battery Performance of 6-8 years lifespan with superior lighting performance of 200lm/w

- 2500+ charge cycles
- Supreme Lighting Efficiency: 200lm/W
- Superior Brightness, 50% Less Energy
- Advanced Power Storage
- 3-5 Rainy Days Backup



Lighting Parameters

Models Types	NF-LKA -80w	NF-LKA-100W	NF-LKA-120W	NF-LKA-150W
Lumens	16000lm (80W/105pcs High-efficiency 5050)	20000lm (100W/105pcs High-efficiency 5050)	24000lm (120W/210pcs High-efficiency 5050)	30000lm (150W/232pcs Philips 5050)
Solar Panel	monocrystalline 18V/150W,1130*679mm	monocrystalline 36V/180W,1370*679mm	monocrystalline 36V/240W,1790*679mm	monocrystalline 36V/300W,1940*770mm
Lithium Battery	768WH/12.8V	1152WH/25.6V	1536WH/25.6V	1920WH/25.6V
Controller	MPPT			
CCT	3000-6500K			
CRI	>70RA			
Charging Time	4-6 hours			
Working Time	2-3 rainy days			
Material	Die-casting Aluminium			
IP Rating	IP65			
Mounting Height	6-10m	10-12m	12-14m	12-18m



30-120w

Various Model Preference

200lm/w

Supreme Lighting Efficiency

<1%

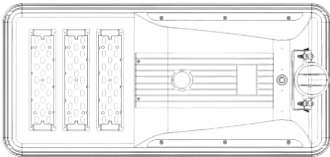
First-year power degradation

3~5

Rainy Days Backup

Light Up Streets with **200 lm/w** Efficiency and an all-in-one solar design for ultra-bright.

- Large Light Power for Professional Road Illumination
- Supreme Lighting Efficiency: 200lm/W
- Superior Brightness, 50% Less Energy
- Advanced Power Storage
- 3-5 Rainy Days Backup



Lighting Parameters

Models Types	NF-YT-L30	NF-YT-L40	NF-YT-L50
Lumens	6000lm (30W/96pcs SMD 3030)	8000lm (40W/144pcs SMD 3030)	12000lm(60W/192pcs SMD 3030)
Solar Panel	monocrystalline,18V/50W,680*398mm	monocrystalline,18V/60W,785*398mm	monocrystalline,18V/80W,1025*398mm
Lithium Battery	240WH/3.2V	320WH/3.2V	384WH/12.8V
Controller	MPPT boost controller		
CCT	3000-6500K		
CRI	>70RA		
Charging Time	4-6 hours		
Working Time	3-5 rainy days		
Material	Die-casting Aluminium		
IP Rating	IP65		
Mounting Height	5-7 meters	6-8 meters	8-10 meters

Lighting Parameters

Models Types	NF-YT-L60	NF-YT-L80	NF-YT-L100
Lumens	16000lm(80W/240pcs SMD 3030)	20000lm(100W/288pcs SMD 3030)	24000lm(120W/336pcs SMD 3030)
Solar Panel	monocrystalline:18V/105W,1298*398mm	monocrystalline:18V/130W,1510*398mm	monocrystalline:18V/150W,1915*398mm
Lithium Battery	570WH/12.8V	768WH/12.8v	960WH/12.8V
Controller	MPPT(PIR)		
CCT	3000-6500K		
CRI	>70RA		
Charging Time	4-6 hours		
Working Time	3-5 rainy days		
Material	Die-casting Aluminium		
IP Rating	IP65		
Mounting Height	10-12 meters	12-13 meters	13-15 meters

ESS Series

2025

Plug-in Design

Plug-in Design
Quick Use

Strong Support
Grade-A Battery Support

>2500
Life Cycles

Modulized
Easy Extend

Unlock **98.4%** Peak Efficiency with Total Safety.

- Ultimate Efficiency: European Efficiency 97.9%
- AFCI Active Safety: Proactive Fire Prevention
- LiFePO4 Battery: Safer, 6000+ Cycles
- Simple Stack Install: Plug & Play Simplicity
- IP65 Protection: All-Weather Durability



NF-ESS10-9.6LV Three Phase ESS

ESS Parameters

Parameter	NF - PA10K04HV	NF - PA10K204HV
PV input power		19000W
Nominal DC voltage/Voc		600Vdc
Start - up / Mo operation voltage		180Vdc
MPPT voltage range		150 - 920Vdc
Max. PV input current		48A (16A×32A)
Max. AC input power from grid		20500VA
Rated AC output power		10000W
Max. AC output apparent power		11000VA
Rated / Max. AC output current		16.2A/18.7A
AC voltage output range		270 - 480V
Rated grid frequency		50Hz/60Hz
Rate voltage(Vdc)	192	384
Cell combination	60S(P1)	60S(P2)
Rate capacity(AH)	50	50
Energy storage(WH)	9.6	19.2
Cycle life	25±2℃, D/C 0.5C, EOL(70%)> 6000	
Charge temperature	0℃ - 50℃@60 ± 25% Relative Humidity	
Discharge temperature	-20℃ - 50℃@60 ± 25% Relative Humidity	
IP class	IP65	
Material system	LiFePO4	
Case material	Meta	
Protocol(Optional)	RS485/RS232/ WLAN Optional	
Certificate	EN, IEC, NRS, C99, UN38.3, MSDS, CE	



Solar System

2025

Plug-in Design

Plug-in Design

Quick Use

Long life span

Grade-A Battery Support

>2500

Life Cycles

0.40%

First-year power degradation

One Investment, A Decade of Peace of Mind.

- Exceptional Lifespan: 6000+ Deep Cycles
- Inherently Safer LiFePO4 Core Chemistry
- High-Speed 1C Charge & Discharge Rate
- Effortless Expansion with Modular Design
- Robust Metal Case with Optional IP65 Protection

CE MSDS



Flexible Investment



TUV Certification



Fast Installation



Perfect Compatibility



Safety



Fast Charge



NF-W25200 Wall-Mounted

Lighting Parameters

Parameter	NF - H48100	NF - H48200	NF - H51100	NF - H51200
Rate voltage(Vdc)	48		51.2	
Cell combination	15S1P	15S2P	16S1P	16S2P
Rate capacity(AH)	100	200	100	200
Energy storage(k WH)	4.8	9.6	5.12	10.24
Cycle life	EOC 70%,>= 2500			
Charge voltage(V)	52.5		56	
Max. charge current(A)	100 (Optional 150/200A for 200AH pack)			
Max. discharge current(A)	100 (Optional 150/200A for 200AH pack)			
Discharge cut - off voltage(VDC)	40.8		43.2	
Charge cut - off voltage(VDC)	54.75		58.4	
IP class	IP20			
Material system	LiFePO4			
Case type	Wall Mount			
Net weight(kg)	42	85	44	88
Gross weight(kg)	47	95	49	98
Protocol(Optional)	CAN/RS485/RS232			
Monitoring	Bluetooth/WLAN Optional			
Certificates	UN38.3, MSDS, CE - EMC	UN38.3, MSDS, CE - EMC, IEC62619, UL973	UN38.3, MSDS, CE - EMC	



Solar System

2025

Plug-in Design

Plug-in Design
Quick Use

Long life span
Grade-A Battery Support

>2500
Life Cycles

0.40%
First-year power degradation

Get All-in-One Solar Power with flexible choices to suit your **3-10kWh** needs.

- True Plug & Play for Quick Use without Expertise
- Integrated Inverter + Battery System
- Reliable Off-Grid Energy Source, Ready Anytime
- Long-Lasting Grade-A Battery Support
- Flexible Capacity Choices from 3kWh to 10kWh



NF-HS1011 All-in-One Solar system



Flexible Investment



TUV Certification



Fast Installation



Perfect Compatibility



Safety



Fast Charge

ESS Parameters

Parameters	NF - AIOESS3200	NF - AIOESS4608	NF - AIOESS5210	NF - AIOESS10240
Inverter Rated/Peak Power	3000W/6000w	4000W/8000W	5000W/10000W	5000W/10000W
Rated Battery Capacity	3200WH/12.8V	4608WH/25.6V	5120WH/51.2V	10240WH/51.2V
AC Output Voltage	220Vac/50Hz			
AC Input Voltage	1100W			
PV Input Voltage	≤ 85V			
Max.PV Input Power	2500W Max			
Battery Chemical	LiFePO4 Battery			
Inverter Efficiency	> 90%			
AC Output	4*110V/220V,60Hz/50Hz			
DC Output	1* USB 5-18V Max 18W 1* Type C Max.20V 60W (Support TYPE-C fast charging)			
Operating Temperature	0°C~60°C			
Protection	Overcharge and overdischarge, Overcurrent protection Overload protection Short circuit protection, Fault protection			
Dimension	493*295*728mm			
Weight	50KG	60KG	65KG	100KG



Stadium Light Series

2025

600-1500w

Various Model Preference

170lm/w

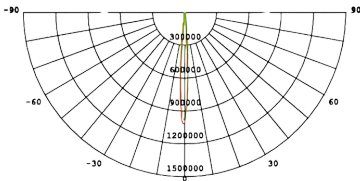
Supreme Lighting Efficiency

<1%

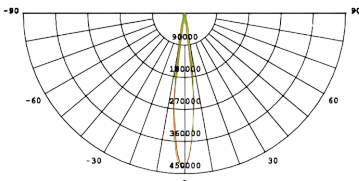
First-year power degradation

12°-60°

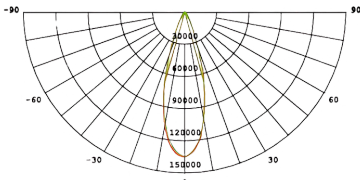
Photometry Angel



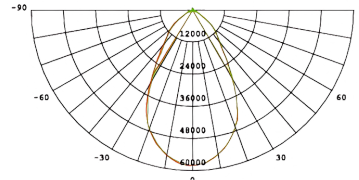
12°



22°



40°



60°



NF-Mars LED Flood Light

Lighting Parameters

Models Types	NF-MARS-600	NF-MARS-800	NF-MARS-1000
Power	600W	800W	1000W
Beam Angel	12°/22°/40°/60°		
Luminaire Flux	240,000lm	270,000lm	160,000lm
System Efficacy	170lm/W	160lm/W	160lm/W
Power Factor	>0.97		
Surge Protection	Imax 10kA (20kV)		
IP Rating	IP66		
Product Dimension	408*238*420mm	408*238*420mm	476*536*539mm
Product Weight	10kg	12kg	16.8kg

Lighting Parameters

Models Types	NF-MARS-1200	NF-MARS-1300	NF-MARS-1500
Power	1200W	1300W	1500W
Beam Angel	12°/22°/40°/60°		
Luminaire Flux	180,000lm	240,000lm	270,000lm
System Efficacy	150lm/W	170lm/W	160lm/W
Power Factor	>0.97		
Surge Protection	Imax 10kA (20kV)		
IP Rating	IP66		
Product Dimension	476*536*539mm	510*595*615mm	510*595*615mm
Product Weight	16.8kg	21kg	21kg



Gas Station Light Series

2025

200-1600w
Various Model Preference

165lm/w
Supreme Lighting Efficiency

10KV
Surge Protection

3000-6000K
CCT Choice



NF-HYG-FY1

NF-HYG-FY2



Energy conservation



Dustproof and Waterproof



Stable heat dissipation



Durable



High bright light source



Ultra low glare

Lighting Parameters

Models Types	NF-HYG-FY1-50	NF-HYG-FY1-100	NF-HYG-FY2-100
Luminaire Flux	7000lm	7000lm	14000lm
Input Voltage	A85-265 AC 50-60Hz		
LED Driver	Mean Well/ Inventronics		
Light Source	3030 88pcs	5050 16pcs	3030 152pcs
Light Efficiency	140-150 lm/w		
CRI	>80 Ra		
Beam Angel	15°/25°/36°/48°/60°/120°		
Product Dimension	234*234*60mm	234*234*60mm	324*324*65mm
Warranty Period	3-5 years		

Lighting Parameters

Models Types	NF-HYG-FY1-50	NF-HYG-FY1-100	NF-HYG-FY2-100
Luminaire Flux	14000-15000lm	21000-22000lm	28000-300000lm
Input Voltage	AC 100-277V		
LED Driver	Mean Well/ Inventronics		
Light Source	256 pcs/3030		
Light Efficiency	140-150 lm/w		
CRI	>80 Ra		
Beam Angel	30°/60°/90°/120°		
Product Dimension	340*340*96.5mm		
Warranty Period	3-5 years		



Stadium Light Series

2025

200-1600w

Various Model Preference

165lm/w

Supreme Lighting Efficiency

10KV

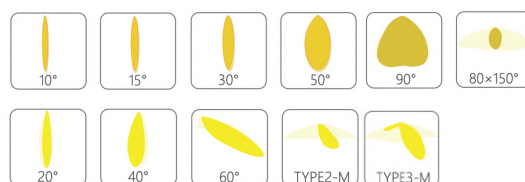
Surge Protection

3000-6000K

CCT Choice

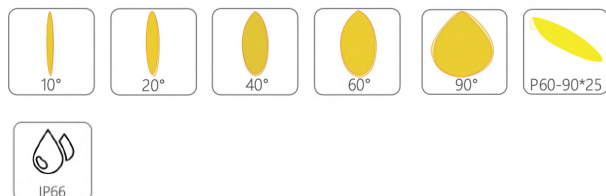


- High Lighting Efficiency up to 150lm/W
- Wide Range of Lighting Power from 500W - 1200W
- CCTV from 3000K to 6000K
- Power remote mounting



NF-S6 LED Stadium Light

- High Lighting Efficiency up to 165lm/W
- Wide Range of Lighting Power from 200W - 1600W
- CCT from 3000K to 6000K
- 10KV lightning surge protection



NF-3605 LED Stadium Light



Stadium Light Series

2025

500-1500w

Various Model Preference

180lm/w

Supreme Lighting Efficiency

<1%

First-year power degradation

>4000K

CCT Choice



NF-S5 LED Stadium Light

- High Lighting Efficiency up to 160lm/W
- Wide Range of Lighting Power from 500W, 1000W, 1500W
- CCTV from 4000K to 5700K
- High color rendering index, restores true colors, suitable for TV broadcasting
- The module bracket can be adjusted by $\pm 90^\circ$ to accurately control the light direction



NF-T35C LED Stadium Light

- High Lighting Efficiency up to 180lm/W
- Wide Range of Lighting Power from 400W - 500W
- CCTV from 4000K to 6500K
- One-piece die-cast thickened aluminum heat dissipation, high thermal conductivity, good heat dissipation effect

Solar CCTV

2025

Plug-in Design

Smart Tracking
&Cloud Storage Backup

High-Resolution
Dual Lenses (3MP+3MP)

Infrared Vision
8 spherical lights

IP66 Waterproof
Mounting Flexibility

CCTV Parameters

Parameter	NF-T20 Wifi	NF-T20 4G
Pixel	3MP+3MP	
Focal Length	4mm	
Lens Parameter	F2.0	
Speed	Uniform Speed	
Lamp Board	8spherical infrared +8 spherical white light	
Shell	2.5-inch ball (wall mounted + hoisting)	
Solar Panels	7.5W 6V	
Internet	2.4G Wifi	4G
Size	60*25*18CM	
Horn	Built-in, supports intercom	
Human Tracking	Supported	
Battery	8000mA	
Extended Memory	8-256G	
App	V380 pro	
Alert Mode	Lighting Voice	
Waterproof Grade	IP66	
Cloud Storage	Supported	



Safety



Fast Charge



Fast Installation



Safety



Fast Charge



Fast Installation

CCTV Parameters

Parameter	NF-T11 Wifi	NF-T11 4G
Pixel	3MP+3MP	
Focal Length	4mm	
Lens Parameter	F2.0	
Speed	Uniform Speed	
Lamp Board	8spherical infrared +4 spherical white light	
Shell	2.5-inch ball (wall mounted + hoisting)	
Solar Panels	7.5W 6V	
Internet	2.4G Wifi	4G
Size	60*25*18CM	
Horn	Built-in, supports intercom	
Human Tracking	Supported	
Battery	8000mA	
Extended Memory	8-256G	
App	V380 pro	
Alert Mode	Lighting Voice	
Waterproof Grade	IP66	
Cloud Storage	Supported	



Solar Cleaning

2025

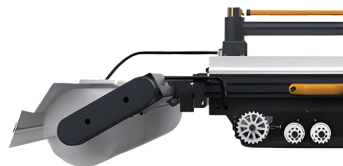
Easy Cleaning

All-Terrain Mobility
Crawler Chassis Without Blind Spots

Dual-Cleaning Brush
Efficient Wet/Dry Cleaning

Remote-Control
150m Wireless Operation

High Capacity
1.2MW Daily Panel Cleaning



Robot Parameters

Parameter	NF-X7
Operation Principle	DC motor control for travel and brush rotation
Working Voltage	24V
Power Supply Method	Lithium battery (24V) *2 pieces
Battery Life	3-4 hours
Ldling Speed	500 rpm
Cleaning Width	1100 mm
Cleaning Type	Dry cleaning/Water washing
Brush Bristle Material	Nylon
Travel Speed	22m/min
Water Consumption	20L/min
Control Methods	Remote control/handle control
Working Perspective	Less than 15°
Working Temperature Range	-20~50 °C
External Dimensions	1190 * 970 * 350mm
Equipment Weight	29kg (excluding battery) Battery Weight 3.5kg/ Block *2 Brush, Roller Weight 7kg