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MOBILE SOLAR POWER

Mobile Light Tower — 7 m

Manual-mast solar light tower — 150 lm/W LED, dusk-to-dawn runtime, tow-and-go deployment

60 000 lm UP TO LED OUTPUT

19.2 h RUNTIME PER CHARGE

- **Zero fuel & silent** — solar + GEL battery power
- **150 lm/W LED** — 30 000 – 60 000 lm floods
- **All-night runtime** — 19.2 h per charge
- **US / AU / EU trailer** — 2'' ball / 3'' ring hitch

Light where the grid ends

- 2 or 4 × 100 W LED floods at 150 lm/W — up to 60 000 lumens
- Lights up to 1 481 m² at 5 lux — roadworks, events, mining, rescue
- 350° electric rotation + 90° electric tilt, aimed from ground level

Solar power, zero running cost

- 435 W panels + GEL bank: 19.2 h runtime on a full charge
- Dusk-to-dawn photocell, timer & dimming — runs unattended, night after night
- 40 A MPPT recharges the bank in ~9.3 sun-hours

Built to tow, built to last

- US / AU / EU road trailer, electric brake, 14'' wheels
- 4 outriggers, 4 lifting rings, forklift pockets
- −35 °C to +60 °C operating window

Key specifications

LED / output	**2–4 × 100 W · 30–60 klm**
Lit area (5 lux)	**1 013 – 1 481 m²**
Battery bank	**GEL 4.8 / 9.6 kWh**
Runtime / charge	**19.2 h**
Mast	**5 sections · 7 m, winch**
Rotation / tilt	**350° / 90° electric**
Trailer	**US / AU / EU, braked**
Operating temp.	**−35 ~ +60 °C**

PERFORMANCE

LED output		**up to 60 000 lm**
Lit area @ 5 lux		**up to 1 481 m²**
Runtime / charge		**19.2 h**
Solar recharge		**9.3 sun-hours**

WHY COTECH

Assembled, wired & field-tested
Every station is run up — mast, power & payload — before shipment

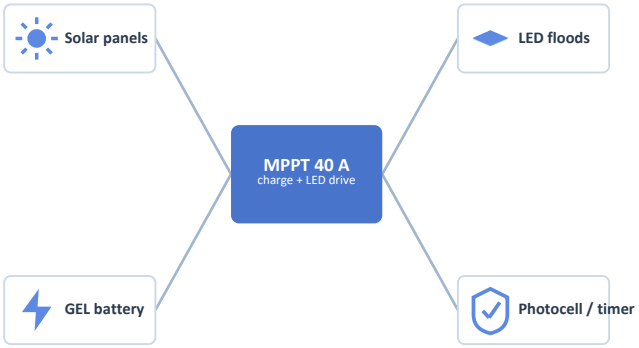
IDEAL FOR

- Construction sites
- Road works
- Mining & quarry
- Events & festivals
- Disaster relief
- Rental fleets

APPLICATIONS

Sites · Industry · Events · Remote

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · EMC · ISO 9001

Runtime / autonomy from a full battery at 25 °C, rated load, no solar input. Specifications subject to change.

Mobile Light Tower 7 m — technical data

Model	CS-MLS7A	CS-MLS7B
Solar & battery		
Solar panel	**1 × 435 W**	**2 × 435 W**
Panel lifting	10° – 45°, manual	
GEL battery	**2 × 200 Ah, 12 V**	**4 × 200 Ah, 12 V**
Battery capacity (80% DoC)	**4 800 Wh**	**9 600 Wh**
System voltage	DC 24 V	
Mains battery charger	Yes	
Lighting		
LED lamp	**2 × 100 W · 30 000 lm**	**4 × 100 W · 60 000 lm**
Lighting area (5 lux)	**1 013 m²**	**1 481 m²**
Rotation / tilt	350° / 90°, electric	
Light control	Dusk-to-dawn · timer · dimming	
Charge controller	40 A MPPT	
Mast & trailer		
Mast	5 sections · 7 m	
Mast lifting	Manual winch	
Trailer standard	US / AU / EU	
Hitch	2'' ball / 3'' ring	
Brake · axle · tire	Electric · single · 14''	
Outriggers / lifting rings	4 × / 4 ×	
Forklift pockets	2 ×	
Performance & logistics		
Working temperature	−35 °C ~ +60 °C	
Charging time (solar)	9.3 h	
Runtime per charge	19.2 h	
Dimensions (mm)	**2 500×2 150×2 700**	**3 700×2 150×2 750**
Weight	**900 kg**	**1 000 kg**
Qty in 20' / 40'	**7 / 16 units**	**6 / 14 units**
Factory options	LFP battery · Victron · AL-KO · skid type	

MECHANICAL & SYSTEM

Mechanical	Data
Chassis	**Hot-dip galvanised steel trailer**
Mast	**Telescopic galvanised steel**
Stabilisers	**4 × outriggers + jockey wheel**
Handling	**4 × lifting rings · forklift pockets**
Finish	**Powder-coat, UV & corrosion resistant**
Service	**Lockable, tool-free access doors**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped

120+ countries

CE · ISO certified

IDEAL FOR

- Construction sites
- Road works
- Mining & quarry
- Events & festivals
- Disaster relief
- Rental fleets

Notes

- Runtime = full battery, rated load, no solar input; daily sunshine extends duty indefinitely.
- GEL standard; LiFePO4, Victron, AL-KO, fuel-cell / genset backup are factory options.
- Container quantities per 20' / 40' GP, transport configuration.

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MOBILE SOLAR POWER

Mobile Light Tower — 9 m

Electric & hydraulic 9 m light towers — up to 240 000 lm lighting 3 887 m², 19.2 h per charge

240 000 lm UP TO LED OUTPUT

3 887 m² LIT AREA AT 5 LUX

- **Up to 240 000 lm** — 4 × 400 W · 150 lm/W LED
- **9 m mast** — electric winch or hydraulic
- **19.2 h runtime** — dusk-to-dawn, unattended
- **Up to 38.4 kWh** — GEL bank with auto-fan

Stadium-class solar lighting

- 4 × 150 – 400 W LED floods — 90 000 to 240 000 lumens
- Lights 2 310 – 3 887 m² at 5 lux from a 9 m mast
- 350° rotation + 90° tilt, both electric, aimed from the panel

A model for every site

- MLS9 / 9B — electric-winch mast, single braked axle
- MLS9H / 9D — hydraulic mast, 0–25° hydraulic panel deck, double axle
- GEL banks 14.4 – 38.4 kWh in ventilated, auto-fan cabinets

Unattended, night after night

- 19.2 h runtime per charge; ~9 sun-hours to full
- Dusk-to-dawn, timer & dimming — zero operator
- 40 – 80 A MPPT charging · −35 ~ +60 °C rated

Key specifications

LED / output	**up to 4 × 400 W · 240 klm**
Lit area (5 lux)	**up to 3 887 m²**
Battery bank	**GEL 14.4 – 38.4 kWh**
Runtime / charge	**19.2 h**
Mast	**9 m, winch or hydraulic**
Rotation / tilt	**350° / 90° electric**
Trailer	**single / double axle, braked**
Operating temp.	**−35 ~ +60 °C**

PERFORMANCE

LED output	**up to 240 000 lm**
Lit area @ 5 lux	**up to 3 887 m²**
Battery bank	**up to 38.4 kWh**
Runtime / charge	**19.2 h**

WHY COTECH

Assembled, wired & field-tested
Every station is run up — mast, power & payload — before shipment

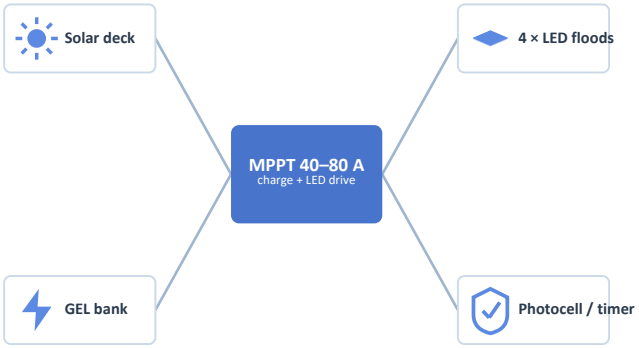
IDEAL FOR

- Highways & bridges
- Mining & quarry
- Ports & logistics
- Large events
- Oil & gas
- Rental fleets

APPLICATIONS

Mining · Ports · Events · Remote

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · EMC · ISO 9001

Runtime / autonomy from a full battery at 25 °C, rated load, no solar input. Specifications subject to change.

Mobile Light Tower 9 m — technical data

Model	CS-MLS9	CS-MLS9B	CS-MLS9H	CS-MLS9D
Solar & battery				
Solar panel	**3 × 435 W**	**4 × 460 W**	**6 × 460 W**	**8 × 460 W**
Panel lifting	**30°–45°, electric**	**30°–45°, electric**	**0°–25°, hydraulic**	**0°–25°, hydraulic**
GEL battery (12 V)	**6 × 200 Ah**	**8 × 200 Ah**	**12 × 200 Ah, auto-fan**	**16 × 200 Ah, auto-fan**
Battery capacity (80% DoC)	**14 400 Wh**	**19 200 Wh**	**28 800 Wh**	**38 400 Wh**
System voltage	**DC 24 V**	**DC 48 V**	**DC 48 V**	**DC 48 V**
Mains battery charger	Yes			
Lighting				
LED lamp	**4 × 150 W · 90 klm**	**4 × 200 W · 120 klm**	**4 × 300 W · 180 klm**	**4 × 400 W · 240 klm**
Lighting area (5 lux)	**2 310 m²**	**2 734 m²**	**3 184 m²**	**3 887 m²**
Rotation / tilt	350° / 90°, electric			
Light control	Dusk-to-dawn · timer · dimming			
Charge controller	**60 A MPPT**	**40 A MPPT**	**60 A MPPT**	**80 A MPPT**
Mast & trailer				
Mast	**5 sections · 9 m**	**5 sections · 9 m**	**9 sections · 9 m**	**9 sections · 9 m**
Mast lifting	**Electric winch**	**Electric winch**	**Hydraulic**	**Hydraulic**
Trailer standard	US / AU / EU			
Hitch	2" ball / 3" ring			
Brake · axle · tire	**Mechanical · single · 15"**	**Mechanical · single · 15"**	**Electric · double · 15"**	**Electric · double · 15"**
Outriggers / rings / forklift	4 × / 4 × / 2 ×			
Performance & logistics				
Working temperature	−35 °C ~ +60 °C			
Charging time (solar)	**9.3 h**	**8.8 h**	**8.8 h**	**8.8 h**
Runtime per charge	19.2 h			
Dimensions (mm)	**3 550×1 650×2 800**	**3 650×2 250×2 800**	**4 150×2 250×2 800**	**4 150×2 250×2 800**
Weight	**1 400 kg**	**1 600 kg**	**2 400 kg**	**2 800 kg**
Qty in 20' / 40'	**3 / 7**	**2 / 5**	**2 / 4**	**2 / 4**
Factory options	LFP battery · Victron · AL-KO · genset · wind turbine · inverter			

MECHANICAL & SYSTEM

Mechanical	Data
Chassis	**Hot-dip galvanised steel trailer**
Mast	**Telescopic galvanised steel**
Stabilisers	**4 × outriggers + jockey wheel**
Handling	**4 × lifting rings · forklift pockets**
Finish	**Powder-coat, UV & corrosion resistant**
Service	**Lockable, tool-free access doors**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped

120+ countries

CE · ISO certified

IDEAL FOR

- Highways & bridges
- Mining & quarry
- Ports & logistics
- Large events
- Oil & gas
- Rental fleets

Notes

- Runtime = full battery, rated load, no solar input; daily sunshine extends duty indefinitely.
- GEL standard; LiFePO4, Victron, AL-KO, fuel-cell / genset backup are factory options.
- Container quantities per 20' / 40' GP, transport configuration.

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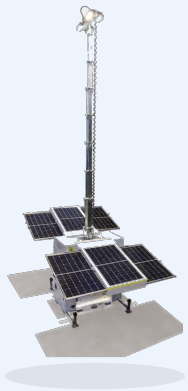
MOBILE SOLAR POWER

Pad-Mount Light Station

Trailer-free solar lighting — crane / forklift placed, from a 4 m mini unit to a 9 m hydraulic X-wing

22.8 h RUNTIME PER CHARGE

180 000 lm UP TO LED OUTPUT



- **No trailer needed** — forklift pockets + lifting rings
- **LiFePO4 · 95% DoC** — more usable energy per kWh
- **22.8 h runtime** — longest in the range
- **0–120° hydraulic array** — MLS9G X-wing solar deck

Drop it. Light it.

- Forklift pockets + lifting rings — placed by crane or forklift, no road registration
- CS-MLS9G: 9 m hydraulic mast, 4 × 300 W LED, 3 184 m² at 5 lux
- CS-MLS4A: 1 × 1 m footprint mini tower for yards, gates & compounds

LiFePO4 endurance

- 95% usable depth of charge — runtime GEL simply cannot match
- MLS9G: 28.8 kWh bank runs its 1 200 W LED deck for 22.8 h
- MLS4A: 12.2 h from a compact 2 560 Wh pack

Smart, unattended operation

- Dusk-to-dawn photocell + timer; auto-fan battery cabinet (MLS9G)
- 0–120° hydraulic panel deck follows the seasonal sun angle (MLS9G)
- −20 ~ +50 °C · weather-sealed cabinet & connectors

Key specifications

LED / output	**up to 4 × 300 W · 180 klm**
Lit area (5 lux)	**up to 3 184 m²**
Battery	**LiFePO4 · 95% DoC**
Runtime / charge	**up to 22.8 h**
Mast	**4 m manual / 9 m hydraulic**
Base	**pad / skid — no trailer**
Handling	**forklift + crane rings**
Operating temp.	**−20 ~ +50 °C**

PERFORMANCE

Runtime / charge		**up to 22.8 h**
LED output		**up to 180 000 lm**
Usable DoC		**95% LiFePO4**
Deployment		**minutes — no trailer**

WHY COTECH

Assembled, wired & field-tested
Every station is run up — mast, power & payload — before shipment

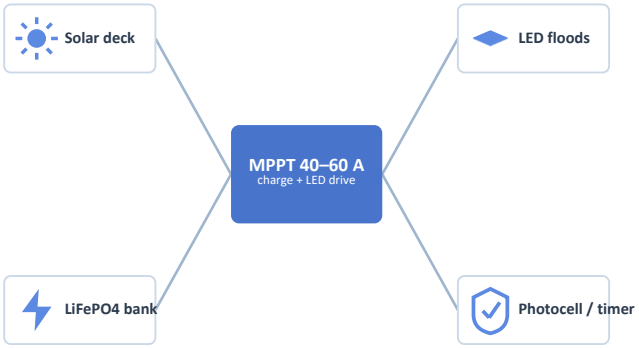
IDEAL FOR

- Compounds & gates
- Container yards
- Temporary works
- Parking areas
- Farms & ranches
- Rental fleets

APPLICATIONS

Yards · Compounds · Gates · Remote

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · EMC · ISO 9001

Runtime / autonomy from a full battery at 25 °C, rated load, no solar input. Specifications subject to change.

Pad-Mount Light Station — technical data

Model	CS-MLS9G	CS-MLS4A
Solar & battery		
Solar panel	6 × 435 W	1 × 435 W
Panel lifting	0° – 120°, hydraulic	0° – 90°, manual
LiFePO4 battery	6 × 100 Ah, 48 V · auto-fan	1 × 200 Ah, 12.8 V
Battery capacity (95% DoC)	28 800 Wh	2 560 Wh
System voltage	DC 48 V	DC 12 V
Mains battery charger	Yes	Optional
Lighting		
LED lamp	4 × 300 W · 180 000 lm	2 × 100 W · 30 000 lm
Lighting area (5 lux)	3 184 m²	1 013 m²
Rotation / tilt	350° / 90°, electric	Fixed aim
Light control	Dusk-to-dawn · timer · dimming	
Charge controller	60 A MPPT	40 A MPPT
Structure		
Mast	9 sections · 9 m, hydraulic	4 sections · 4 m, manual winch
Base	Pad / skid mount — no trailer	
Outriggers	4 ×	Optional
Lifting rings / forklift	4 × / 2 ×	4 × / 4 ×
Performance & logistics		
Working temperature	−20 °C ~ +50 °C	
Charging time (solar)	11 h	5.9 h
Runtime per charge	22.8 h	12.2 h
Dimensions (mm)	3 675×4 850×2 800 deployed	1 000×1 000×2 900
Weight	1 375 kg	400 kg
Qty in 20' / 40'	5 / 10 units	10 / 20 units
Factory options	Victron · inverter · wind turbine	Victron

MECHANICAL & SYSTEM

Mechanical	Data
Base	Galvanised steel skid / pad
Mast	Telescopic galvanised steel
Handling	4 × lifting rings · forklift pockets
Cabinet	Locked, weather-sealed
Finish	Powder-coat, UV & corrosion resistant
Service	Tool-free access panels

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped · **120+** countries · **CE · ISO** certified

IDEAL FOR

- Compounds & gates
- Container yards
- Temporary works
- Parking areas
- Farms & ranches
- Rental fleets

Power, light & security — off-grid, anywhere.

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MOBILE SOLAR POWER

Surveillance Trailer — 7 m

Solar CCTV trailer — 4 × 4 MP cameras, 4G live view, talk-down speaker, up to 5.3 days autonomy

5.3 days BATTERY AUTONOMY

48 days NVR RECORDING

- **4 × 4 MP cameras** — PTZ + bullet mix
- **4G LTE remote** — live view · playback · alerts
- **Talk-down speaker** — challenge intruders remotely
- **48-day NVR** — up to 8 TB onboard

See everything, from anywhere

- Up to 2 × 4 MP PTZ + 2 × 4 MP bullet cameras on a 7 m mast
- 4G LTE router — live view, playback & alerts on any phone or VMS
- NVR motion analytics: detection zones with instant push alerts

Deterrence, not just recording

- Loudspeaker talk-down — warn intruders off in real time
- Up to 48 days of onboard NVR recording (up to 8 TB)
- 4 – 5.3 days battery autonomy; solar keeps it topped up

One-person deployment

- Braked US / AU / EU trailer — tows behind any pickup
- Manual-winch mast + 4 outriggers: on watch in minutes
- −35 ~ +60 °C · months of unattended duty

Key specifications

Cameras	**up to 4 × 4 MP (PTZ + bullet)**
Storage	**up to 8 TB · 48 days**
Connectivity	**4G LTE live view + alerts**
Deterrence	**loudspeaker talk-down**
Battery autonomy	**4 – 5.3 days**
Mast	**5–6 sections · 7 m**
Trailer	**US / AU / EU, braked**
Operating temp.	**−35 ~ +60 °C**

PERFORMANCE

Autonomy		**up to 5.3 days**
Recording		**48 days NVR**
Cameras		**4 × 4 MP**
Mast height		**7 m**

WHY COTECH

Assembled, wired & field-tested
Every station is run up — mast, power & payload — before shipment

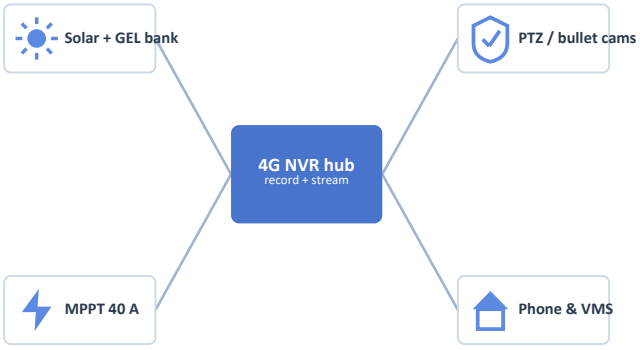
IDEAL FOR

- Construction security
- Critical infrastructure
- Events & crowds
- Parking & logistics
- Utilities & pipelines
- Rental fleets

APPLICATIONS

Sites · Infrastructure · Events · Security

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · EMC · ISO 9001

Runtime / autonomy from a full battery at 25 °C, rated load, no solar input. Specifications subject to change.

Mobile Surveillance Trailer 7 m — technical data

Model	CS-MSS7M	CS-MSS7C	CS-MSS7
Solar & battery			
Solar panel	**1 × 435 W**	**2 × 435 W**	**2 × 450 W**
Panel lifting	**10°–45°, manual**	**10°–45°, manual**	**30°–60°, electric**
GEL battery (12 V)	**2 × 200 Ah**	**4 × 200 Ah**	**4 × 200 Ah**
Battery capacity (80% DoC)	**4 800 Wh**	**9 600 Wh**	**9 600 Wh**
System voltage		DC 24 V	
Mains battery charger		Yes	
Surveillance			
CCTV cameras (4 MP)	**1 × PTZ + 2 × bullet**	**2 × PTZ + 2 × bullet**	**2 × PTZ + 2 × bullet**
Storage / recording	**3 × 512 GB · 21 days**	**4 TB NVR · 48 days**	**8 TB NVR · 48 days**
4G LTE router		Yes — live view, playback, alerts	
Loudspeaker		Yes — remote talk-down	
Analytics		NVR motion detection · zone intrusion	
Charge controller		40 A MPPT	
Mast & trailer			
Mast	**5 sections · 7 m**	**5 sections · 7 m**	**6 sections · 7 m**
Mast lifting		Manual winch	
Trailer standard		US / AU / EU	
Hitch		2'' ball / 3'' ring	
Brake · axle · tire		Electric · single · 14''	
Outriggers / rings / forklift	**4 × / 4 × / 2 ×**	**4 × / 4 × / 2 ×**	**4 × / 4 × / 6 ×**
Performance & logistics			
Working temperature		−35 °C ~ +60 °C	
Charging time (solar)		9.3 h	
Battery autonomy	**4 days**	**5.3 days**	**5.3 days**
Dimensions (mm)	**2 500×2 150×2 700**	**3 700×2 150×2 750**	**2 350×1 650×2 200**
Weight	**900 kg**	**1 000 kg**	**1 100 kg**
Qty in 20' / 40'	**7 / 16**	**6 / 14**	**6 / 14**
Factory options		LFP battery · Victron · AL-KO · skid · fuel cell	

MECHANICAL & SYSTEM

Mechanical	Data
Chassis	**Hot-dip galvanised steel trailer**
Mast	**Telescopic galvanised steel**
Stabilisers	**4 × outriggers + jockey wheel**
Handling	**4 × lifting rings · forklift pockets**
Finish	**Powder-coat, UV & corrosion resistant**
Service	**Lockable, tool-free access doors**

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IDEAL FOR

- Construction security
- Critical infrastructure
- Events & crowds
- Parking & logistics
- Utilities & pipelines
- Rental fleets

Notes

- Runtime = full battery, rated load, no solar input; daily sunshine extends duty indefinitely.
- GEL standard; LiFePO4, Victron, AL-KO, fuel-cell / genset backup are factory options.
- Container quantities per 20' / 40' GP, transport configuration.

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MOBILE SOLAR POWER

Surveillance Trailer — 9 m

9 m quad-PTZ solar CCTV tower — up to 10.7 days autonomy from a 19.2 kWh bank

10.7 days BATTERY AUTONOMY

4 × PTZ 4 MP CAMERAS AT 9 METRES

- **10+ days autonomy** through any weather
- **4 × 4 MP PTZ** 360° coverage from 9 m
- **4G LTE remote** live view · playback · alerts
- **Electric winch** one-button 9 m mast

The endurance benchmark

- Up to 19.2 kWh GEL bank = 10.7 days with zero sun
- Match for the longest-autonomy CCTV trailers on the market
- Solar recharges in ~9.3 sun-hours — endless duty cycle

Quad-PTZ coverage

- 4 × 4 MP PTZ cameras — full 360° at 9 m elevation
- 4 TB NVR, 48 days of recording; 8 TB upgrade option
- NVR motion analytics + loudspeaker talk-down

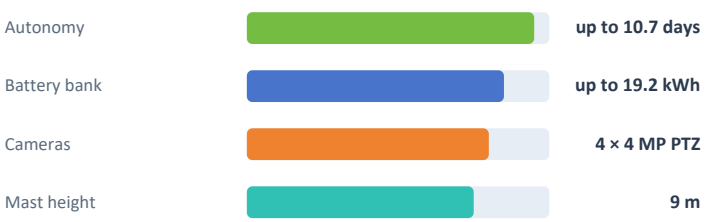
Fleet-ready build

- Electric-winch mast — one-button up / down
- US / AU / EU braked trailer, 15'' wheels
- −35 ~ +60 °C · unattended for months

Key specifications

Cameras	**4 × 4 MP PTZ**
Storage	**4 TB NVR · 48 days**
Battery autonomy	**up to 10.7 days**
Battery bank	**up to 19.2 kWh GEL**
Mast	**5 sections · 9 m, electric**
Connectivity	**4G LTE + loudspeaker**
Trailer	**US / AU / EU, braked**
Operating temp.	**−35 ~ +60 °C**

PERFORMANCE



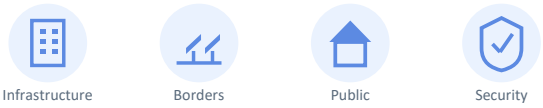
WHY COTECH

Assembled, wired & field-tested
Every station is run up — mast, power & payload — before shipment

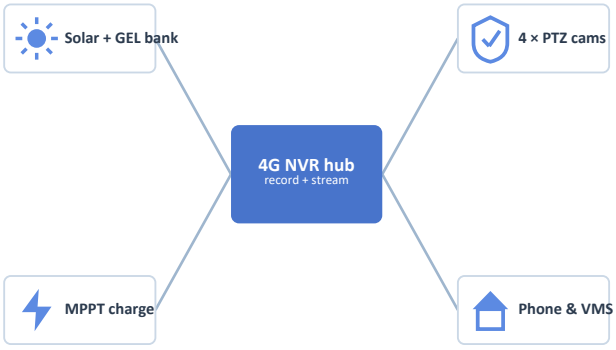
IDEAL FOR

- Critical infrastructure
- Borders & ports
- Mining & energy
- Construction security
- Public safety
- Rental fleets

APPLICATIONS



SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

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Runtime / autonomy from a full battery at 25 °C, rated load, no solar input. Specifications subject to change.

Mobile Surveillance Trailer 9 m — technical data

Model	CS-MSS9	CS-MSS9C
Solar & battery		
Solar panel	**3 × 435 W**	**4 × 460 W**
Panel lifting	30° – 45°, electric	
GEL battery (12 V)	**6 × 200 Ah**	**8 × 200 Ah**
Battery capacity (80% DoC)	**14 400 Wh**	**19 200 Wh**
System voltage	**DC 24 V**	**DC 48 V**
Mains battery charger	Yes	
Surveillance		
CCTV cameras	4 × 4 MP PTZ	
Storage / recording	4 TB NVR · 48 days	
4G LTE router	Yes — live view, playback, alerts	
Loudspeaker	Yes — remote talk-down	
Analytics	NVR motion detection · zone intrusion	
Charge controller	**60 A MPPT**	**40 A MPPT**
Mast & trailer		
Mast	5 sections · 9 m	
Mast lifting	Electric winch	
Trailer standard	US / AU / EU	
Hitch	2" ball / 3" ring	
Brake · axle · tire	Mechanical · single · 15"	
Outriggers / rings / forklift	4 × / 4 × / 2 ×	
Performance & logistics		
Working temperature	−35 °C ~ +60 °C	
Charging time (solar)	9.3 h	
Battery autonomy	**8 days**	**10.7 days**
Dimensions (mm)	**3 550×1 650×2 800**	**3 950×1 750×2 800**
Weight	**1 400 kg**	**1 600 kg**
Qty in 20' / 40'	**3 / 7 units**	**2 / 5 units**
Factory options	LFP · Victron · AL-KO · skid · fuel cell · genset · 8 TB NVR	

MECHANICAL & SYSTEM

Mechanical	Data
Chassis	**Hot-dip galvanised steel trailer**
Mast	**Telescopic galvanised steel**
Stabilisers	**4 × outriggers + jockey wheel**
Handling	**4 × lifting rings · forklift pockets**
Finish	**Powder-coat, UV & corrosion resistant**
Service	**Lockable, tool-free access doors**

COTECH SOLAR — vertically-integrated manufacturing

20 GW shipped · **120+** countries · **CE · ISO** certified

IDEAL FOR

- Critical infrastructure
- Borders & ports
- Mining & energy
- Construction security
- Public safety
- Rental fleets

Notes

- Runtime = full battery, rated load, no solar input; daily sunshine extends duty indefinitely.
- GEL standard; LiFePO4, Victron, AL-KO, fuel-cell / genset backup are factory options.
- Container quantities per 20' / 40' GP, transport configuration.

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MOBILE SOLAR POWER

Pad-Mount Camera Station

Compact solar CCTV pillars — forklift-placed on a 1 × 1 m footprint, 4G-connected, up in minutes

5 days BATTERY AUTONOMY

1×1 m FOOTPRINT FITS A PARKING BAY

- **1 m² footprint** — fits a single parking bay
- **LiFePO4 · 95% DoC** — compact, cold-weather capable
- **4G all-in-one** — MCS5 router inside the PTZ
- **Forklift & crane** — 4 pockets + 4 rings

Security that fits anywhere

- 1 × 1 m base — car parks, gates, alleys, compounds
- CS-MCS4: 4 m mast, 1 × PTZ + 2 × turret (4 MP)
- CS-MCS5: micro unit, single 4 MP PTZ with built-in 4G & speaker

Genuinely wireless

- Solar + LiFePO4 (95% DoC) — no trenching, no cabling
- MCS4: 5 days autonomy from a 2 560 Wh pack
- 4G LTE live view, playback and push alerts

Placed, not installed

- 4 forklift pockets + 4 lifting rings — done in minutes
- Manual winch mast: 4 m (MCS4) / 5 m (MCS5)
- −20 ~ +50 °C · locked, weather-sealed cabinet

Key specifications

Cameras	**up to 1 × PTZ + 2 × turret**
Storage	**up to 3 × 512 GB · 21 days**
Connectivity	**4G LTE (MCS5: in-PTZ)**
Battery autonomy	**up to 5 days**
Battery	**LiFePO4 · 95% DoC**
Mast	**4 / 5 m, manual winch**
Footprint	**1 000 × 1 000 mm**
Operating temp.	**−20 ~ +50 °C**

PERFORMANCE

Autonomy	**up to 5 days**
Footprint	**1 m² only**
Cameras	**up to 3 × 4 MP**
Weight	**from 200 kg**

WHY COTECH

Assembled, wired & field-tested
Every station is run up — mast, power & payload — before shipment

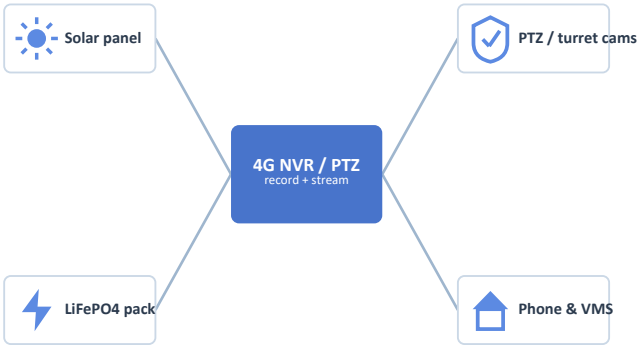
IDEAL FOR

- Car parks
- Site gates
- Retail & events
- Municipal spaces
- Substations
- Rental fleets

APPLICATIONS

Car parks · Gates · Municipal · Security

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · EMC · ISO 9001

Runtime / autonomy from a full battery at 25 °C, rated load, no solar input. Specifications subject to change.

Pad-Mount Camera Station — technical data

Model	CS-MCS4	CS-MCS5
Solar & battery		
Solar panel	**1 × 435 W**	**1 × 40 W**
Panel lifting	0° – 90°, manual	
LiFePO4 battery	**1 × 200 Ah, 12.8 V**	**2 × 8.3 Ah, 12.8 V**
Battery capacity (95% DoC)	**2 560 Wh**	**206 Wh**
System voltage	DC 12 V	
Mains battery charger	**Optional**	—
Surveillance		
CCTV cameras (4 MP)	**1 × PTZ + 2 × turret**	**1 × PTZ**
Storage / recording	**3 × 512 GB · 21 days**	**1 × 512 GB · 21 days**
4G LTE	**Yes — router**	**Integrated in PTZ**
Loudspeaker	Integrated in PTZ	
Charge controller	**40 A MPPT**	**MPPT**
Structure		
Mast	**4 sections · 4 m**	**3 sections · 5 m**
Mast lifting	Manual winch	
Base	Pad / skid — no trailer	
Outriggers	**Optional**	—
Lifting rings / forklift	4 × / 4 ×	
Performance & logistics		
Working temperature	−20 °C ~ +50 °C	
Charging time (solar)	**5.9 h**	**6.9 h**
Battery autonomy	**5 days**	**1.4 days**
Dimensions (mm)	**1 000×1 000×2 900**	**1 000×1 000×2 500**
Weight	**400 kg**	**200 kg**
Qty in 20' / 40'	10 / 20 units	

MECHANICAL & SYSTEM

Mechanical	Data
Base	**Galvanised steel skid / pad**
Mast	**Telescopic galvanised steel**
Handling	**4 × lifting rings · forklift pockets**
Cabinet	**Locked, weather-sealed**
Finish	**Powder-coat, UV & corrosion resistant**
Service	**Tool-free access panels**

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IDEAL FOR

- Car parks
- Site gates
- Retail & events
- Municipal spaces
- Substations
- Rental fleets

Power, light & security — off-grid, anywhere.

Tow-and-go solar stations from a Top-50 solar maker: zero fuel, zero noise, zero emissions.

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MOBILE SOLAR POWER

Mobile Solar Generator

Trailer-mounted solar power plant — 3.7 – 7.4 kW hydraulic array, up to 57.6 kWh storage, 8 – 16 kW pure sine

16 kW UP TO PURE-SINE OUTPUT

57.6 kWh UP TO BATTERY STORAGE

- **The genset alternative** — zero fuel · zero noise · zero CO2
- **Hydraulic solar wings** — 3.7 – 7.4 kW unfold in minutes
- **Up to 57.6 kWh** — deep-cycle bank · LFP optional
- **8 – 16 kW pure sine** — 50 / 60 Hz · 120 / 240 V

Grid-class power, no grid

- 8 – 16 kW pure-sine output, 50 / 60 Hz, 120 / 240 V
- 28.8 – 57.6 kWh deep-cycle storage — days at typical site loads
- ≈2.9 h at FULL rated load; 6.5 sun-hours to recharge

Deploys like a light tower

- Hydraulic panel wings (0 – 25°) unfold in minutes
- Dual / triple-axle road trailer, 50 mm ball / 70 mm ring hitch
- 4 manual stabiliser legs; wind-brace locks for transport

Hybrid-ready by design

- AC input for mains or genset assist charging
- Factory options: LFP bank, backup genset, wind turbine, Victron
- Telemetry options: antenna mast, router, Wi-Fi, GPRS

Key specifications

Inverter output	**8 – 16 kW pure sine**
Battery storage	**28.8 – 57.6 kWh**
Solar array	**3.68 – 7.36 kW, hydraulic**
Full-load runtime	**≈2.9 h**
Solar recharge	**6.5 sun-hours**
AC assist input	**mains / genset**
Trailer	**dual / triple axle, braked**
Operating temp.	**–25 ~ +60 °C**

PERFORMANCE

WHY COTECH

Assembled, wired & field-tested
Every station is run up — mast, power & payload — before shipment

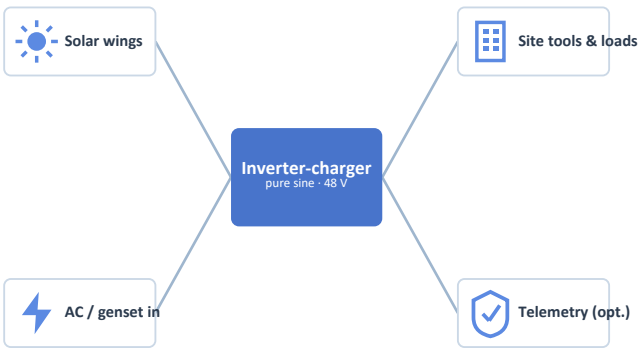
IDEAL FOR

- Construction power
- Events & broadcast
- Mining & remote camps
- Disaster response
- Telecom sites
- Grid-outage backup

APPLICATIONS

Sites · Events · Backup · Remote

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

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Runtime / autonomy from a full battery at 25 °C, rated load, no solar input. Specifications subject to change.

Mobile Solar Generator — technical data

Model	CS-MG8	CS-MG10	CS-MG12	CS-MG14	CS-MG16
Solar & battery					
Solar panel	8 × 460 W	10 × 460 W	12 × 460 W	14 × 460 W	16 × 460 W
Array power	3.68 kW	4.6 kW	5.52 kW	6.44 kW	7.36 kW
Panel lifting	0° – 25°, hydraulic				
Deep-cycle battery (12 V)	16 × 150 Ah	20 × 150 Ah	24 × 150 Ah	28 × 150 Ah	32 × 150 Ah
Battery capacity (80% DoC)	28 800 Wh	36 000 Wh	43 200 Wh	50 400 Wh	57 600 Wh
System voltage	DC 48 V				
AC assist charger	Yes — mains / genset input				
Power conversion					
Inverter (pure sine)	8 kW	10 kW	12 kW	14 kW	16 kW
Frequency / voltage	50 / 60 Hz · 120 / 240 V				
AC input sockets	1 ×	1 ×	2 ×	2 ×	2 ×
AC output sockets	3 ×	3 ×	4 ×	4 ×	4 ×
Full-load runtime	≈2.9 h (then solar-assist)				
Trailer					
Axle	Dual	Dual	Triple	Triple	Triple
Tire & rim	15"				
Stabiliser legs	4 ×, manual				
Tow hitch	50 mm ball / 70 mm ring				
Performance & logistics					
Working temperature	−25 °C ~ +60 °C				
Charging time (solar)	6.5 h				
Transport dims (mm)	2600×2200×2200	2600×2200×2200	4600×2200×2200	4600×2200×2200	4600×2200×2200
Deployed dims (mm)	5800×6400×2300	6400×6400×2300	5700×6400×2200	7500×6400×2200	8400×6400×2200
Gross weight	2 600 kg	2 800 kg	3 000 kg	3 200 kg	3 200 kg
Qty in 20' / 40'	2 / 4 units				
Factory options	LFP · genset · wind turbine · Victron · AL-KO · skid · telemetry				

MECHANICAL & SYSTEM

Mechanical	Data
Chassis	Hot-dip galvanised, dual / triple axle
Panel deck	Hydraulic 0–25°, wind-brace locks
Battery bays	Vented cabinets, auto-fan
Finish	Powder-coat, UV & salt resistant
Access	Lockable service doors
Road lighting	US / AU / EU compliant

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