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SOLAR VENTILATION

Solar Roof Ventilation Fan

Solar attic / roof ventilator — brushless, thermostat-controlled, exhausts hot & humid air for free

1344 CFM UP TO AIRFLOW

2230 sq ft UP TO COVERAGE

- **Brushless DC** quiet & efficient
- **Up to 2284 m³/h** high airflow
- **Smart thermostat** auto on/off
- **Solar + AC** 24/7 hybrid option

Powerful, quiet ventilation

- Brushless DC motor moves up to 2284 m³/h (1344 CFM) — exhausts trapped attic heat & moisture
- Near-silent operation (< 45 dB) with zero mains wiring and zero running cost
- 935–1264 RPM on balanced 12" / 14" blades

Smart & autonomous

- Adjustable thermostat switches the fan on/off automatically by attic temperature
- Optional AC adapter keeps it running on cloudy days and at night — 24/7 hybrid
- Fixed, adjustable-tilt or separated solar panel to suit any roof angle

Built for the roof

- IP65 weatherproof ABS / aluminium housing — UV- and rust-resistant
- Low-profile dome sheds wind-driven rain; built-in insect screen
- 5-year warranty

Key specifications

Type	**Solar roof / attic ventilator**
Solar panel	**Mono 25 – 60 W**
Airflow	**up to 2284 m³/h**
Coverage	**up to 210 m²**
Motor	**Brushless DC, 24 V**
Control	**Adjustable thermostat**
Ingress	**IP65**
Warranty	**5 years**

PERFORMANCE

Airflow		**up to 1344 CFM**
Coverage		**up to 210 m²**
Solar input		**25 – 60 W**
Brushless motor		**long-life DC**

WHY COTECH

Run-tested & balanced
Every fan airflow- & noise-checked before shipment

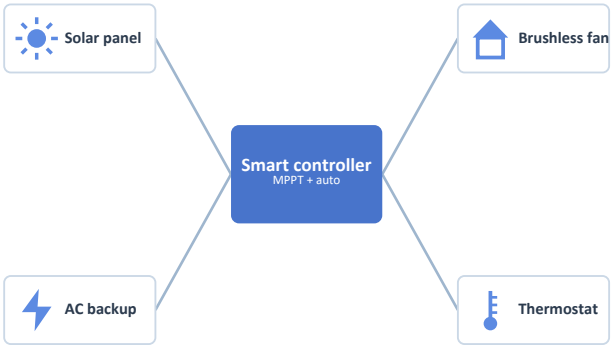
IDEAL FOR

- Attic / loft
- Warehouses
- Workshops
- Garages
- Sheds / barns
- Greenhouses

APPLICATIONS

Homes · Workshops · Garages · Farms

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP68 · ISO 9001 · FCC

Airflow, coverage & speed at full sun, 25 °C. CFM = m³/h ÷ 1.699. Specifications subject to change.

Solar Roof Ventilation Fan — specifications

Model	CSRVF-F1225	CSRVF-A1440	CSRVF-A1450	CSRVF-S1460
Airflow & motor				
Solar panel	**Mono 25 W**	**Mono 40 W**	**Mono 50 W**	**Mono 60 W**
Panel mounting	**Fixed**	**Adjustable**	**Adjustable**	**Separated**
Blade size	**12" (315 mm)**	**14" (368 mm)**	**14" (368 mm)**	**14" (368 mm)**
Motor	Brushless DC, 24 V			
Motor speed	**935 RPM**	**1100 RPM**	**1180 RPM**	**1264 RPM**
Airflow	**1100 m³/h**	**1650 m³/h**	**1950 m³/h**	**2284 m³/h**
Airflow (CFM)	**647 CFM**	**971 CFM**	**1148 CFM**	**1344 CFM**
Coverage	**~100 m²**	**~150 m²**	**~180 m²**	**~210 m²**
Control & build				
Thermostat	Adjustable, auto on/off			
Hybrid backup	Optional AC adapter (24/7)			
Noise	< 45 dB(A)			
Ingress protection	IP65			
Housing	ABS / aluminium, UV-stable			
Colour	Black / White / Grey			
Warranty	5 years			

MECHANICAL & SYSTEM

Mechanical	Data
Motor type	**Brushless DC (long-life)**
Control	**Adjustable thermostat, auto**
Power	**Solar + optional AC hybrid**
Ingress protection	**IP65 – IP68**
Noise	**Low-noise balanced blades**
Warranty	**5 years**

COTECH SOLAR — vertically-integrated manufacturing

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

IDEAL FOR

- Attic / loft
- Warehouses
- Workshops
- Garages
- Sheds / barns
- Greenhouses

Ventilate for free — sun-powered, around the clock.

Brushless solar fans with smart thermostats & AC/DC hybrid backup, from a Top-50 solar maker.

COTECH SOLAR — a vertically-integrated solar manufacturer since 2005, a Top-50 global brand.
20 GW shipped to 120+ countries: cells · modules · storage · mounting · complete systems.

- **Brushless DC motor** — quiet, efficient, long-life
- **Smart thermostat** — auto on/off by temperature
- **Solar + AC hybrid** — ventilate day & night, 24/7
- **All-weather build** — IP-rated, corrosion-proof

24/7 solar + AC · **Brushless** DC motor · **Smart** thermostat · **5-yr** warranty

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SOLAR VENTILATION

Solar Wall Exhaust Fan

Solar wall exhaust fan — powerful brushless ventilation for greenhouses, barns & workshops

8240 CFM — UP TO AIRFLOW

200 W — SOLAR INPUT

- **Brushless DC** — high static pressure
- **Up to 14000 m³/h** — strong airflow
- **Thermo + humidistat** — auto climate
- **Solar + AC** — 24/7 hybrid

Strong, efficient airflow

- Brushless DC motor delivers up to 14000 m³/h (8240 CFM) of continuous exhaust
- Balanced aluminium blades and high static pressure for ducted or louvered walls
- 24 / 48 V high-torque motor with soft start

Climate-smart control

- Thermostat + humidistat run the fan automatically by temperature or humidity
- Solar-priority controller adds AC only when needed — true 24/7 hybrid
- MPPT extracts maximum panel power in weak light

Tough & weatherproof

- Galvanised-steel / ABS louvered housing with gravity or motorised shutters
- IP65 control box and IP68 motor for wet, dusty agricultural sites
- 5-year warranty

Key specifications

Type	**Solar wall exhaust fan**
Solar panel	**Mono 100 – 200 W**
Airflow	**up to 14000 m³/h**
Fan size	**600 – 800 mm**
Motor	**Brushless DC, 24/48 V**
Control	**Thermostat + humidistat**
Ingress	**IP65 box / IP68 motor**
Warranty	**5 years**

PERFORMANCE

Airflow	**up to 8240 CFM**
Solar input	**up to 200 W**
Static pressure	**high-torque BLDC**
IP68 motor	**wet & dusty duty**

WHY COTECH

Run-tested & balanced
Every fan airflow- & noise-checked before shipment

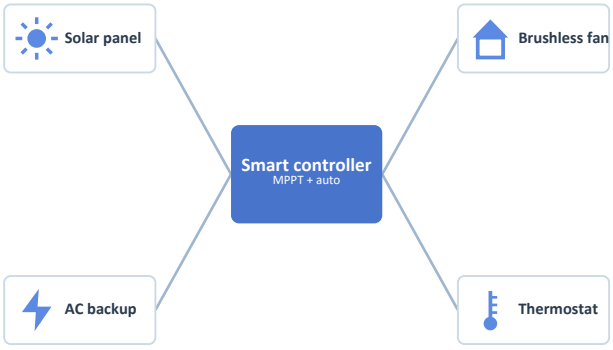
IDEAL FOR

- Greenhouses
- Poultry / livestock
- Workshops
- Warehouses
- Garages
- Drying rooms

APPLICATIONS

Greenhouse · Poultry · Workshop · Warehouse

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP68 · ISO 9001 · FCC

Airflow, coverage & speed at full sun, 25 °C. CFM = m³/h ÷ 1.699. Specifications subject to change.

Solar Wall Exhaust Fan — specifications

Model	CSWE-600	CSWE-700	CSWE-800
Airflow & motor			
Solar panel	**Mono 100 W**	**Mono 150 W**	**Mono 200 W**
Fan size	**600 mm**	**700 mm**	**800 mm**
Motor		Brushless DC	
Motor voltage	**24 V**	**48 V**	**48 V**
Airflow	**6000 m³/h**	**9500 m³/h**	**14000 m³/h**
Airflow (CFM)	**3531 CFM**	**5591 CFM**	**8240 CFM**
Blades		Aluminium, balanced	
Control & build			
Control		Thermostat + humidistat, auto	
Hybrid backup		Solar-priority + AC (24/7)	
Housing		Galvanised steel / ABS louvre	
Shutter		Gravity / motorised	
Ingress protection		IP65 box · IP68 motor	
Noise		< 60 dB(A)	
Warranty		5 years	

MECHANICAL & SYSTEM

Mechanical	Data
Motor type	**Brushless DC (long-life)**
Control	**Adjustable thermostat, auto**
Power	**Solar + optional AC hybrid**
Ingress protection	**IP65 – IP68**
Noise	**Low-noise balanced blades**
Warranty	**5 years**

COTECH SOLAR — vertically-integrated manufacturing

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

IDEAL FOR

- Greenhouses
- Poultry / livestock
- Workshops
- Warehouses
- Garages
- Drying rooms

Ventilate for free — sun-powered, around the clock.

Brushless solar fans with smart thermostats & AC/DC hybrid backup, from a Top-50 solar maker.

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- **Brushless DC motor** — quiet, efficient, long-life
- **Smart thermostat** — auto on/off by temperature
- **Solar + AC hybrid** — ventilate day & night, 24/7
- **All-weather build** — IP-rated, corrosion-proof

14000 m³/h max · **Brushless** DC motor · **IP68** rated motor · **5-yr** warranty

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SOLAR VENTILATION

Industrial Solar Wall Fan

Industrial solar wall fan — up to 41000 m³/h with AC/DC hybrid power for large-scale ventilation

41000 CMH UP TO AIRFLOW

600 W SOLAR INPUT

- **Industrial-grade** — up to 41000 m³/h
- **AC/DC hybrid** — runs 24/7
- **IP68 motor** — galvanised steel
- **Smart controller** — + Meanwell PSU

Massive ventilation

- 8-blade aluminium impeller (Ø1110 mm) moves up to 41000 m³/h (24132 CFM)
- 36 / 48 V IP68 brushless DC motor rated for heavy-duty continuous operation
- Galvanised-steel housing up to 1220×1220 mm — corrosion-proof

True 24/7 hybrid power

- Smart controller + Meanwell PSU: sunny → solar, cloudy → solar + AC, night → AC
- Wide-range AC input 100–277 V works on any grid as automatic backup
- Seamless changeover holds airflow constant around the clock

Engineered for industry

- Monocrystalline panel up to 600 W (40.95 V / 10.75 A class)
- Thermostat and remote control; multi-fan synchronisation
- 50 000-hour motor life, 5-year warranty

Key specifications

Type	**Industrial solar wall fan**
Solar panel	**Mono up to 600 W**
Airflow	**up to 41000 m³/h**
Blade	**8-blade Ø900–1260 mm**
Motor	**BLDC 36/48 V, IP68**
Backup	**AC/DC hybrid (Meanwell)**
Housing	**Galvanised steel**
Warranty	**5 years**

PERFORMANCE

Airflow	**up to 41000 m³/h**
Solar input	**up to 600 W**
Hybrid backup	**AC/DC 24/7**
IP68 motor	**galvanised steel**

WHY COTECH

Run-tested & balanced
Every fan airflow- & noise-checked before shipment

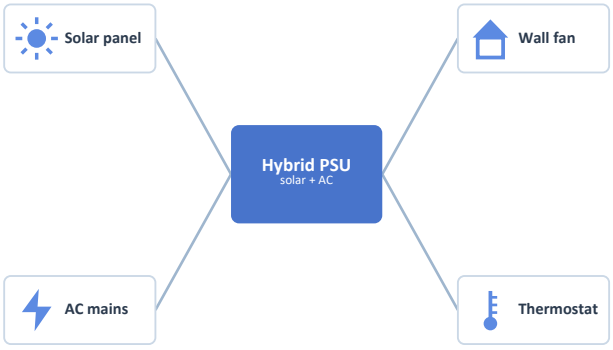
IDEAL FOR

- Greenhouses
- Poultry houses
- Factories
- Warehouses
- Workshops
- Livestock barns

APPLICATIONS

Greenhouse · Poultry · Factory · Warehouse

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP68 · ISO 9001 · FCC

Airflow, coverage & speed at full sun, 25 °C. CFM = m³/h ÷ 1.699. Specifications subject to change.

Industrial Solar Wall Fan — specifications

Model	CSWF-300	CSWF-440	CSWF-550
Solar & motor			
Solar panel	**Mono 300 W**	**Mono 440 W**	**Mono 600 W**
Panel Vmp / Imp	**33.0 V / 9.1 A**	**40.95 V / 10.75 A**	**41.0 V / 14.6 A**
Fan size	**1000×1000 mm**	**1220×1220 mm**	**1380×1380 mm**
Blade		8-blade aluminium	
Blade diameter	**Ø900 mm**	**Ø1110 mm**	**Ø1260 mm**
Motor		Brushless DC, IP68	
Motor voltage	**36 V**	**36 V**	**48 V**
Airflow	**22000 m³/h**	**32319 m³/h**	**41000 m³/h**
Airflow (CFM)	**12949 CFM**	**19022 CFM**	**24132 CFM**
Hybrid power & build			
Backup PSU		Meanwell, AC/DC hybrid	
AC input		100–240 V~ / 277 V~	
PSU output	**36 V · 220 W**	**36 V · 320 W**	**48 V · 400 W**
Power logic		Sun: solar · Cloud: solar+AC · Night: AC	
Control		Thermostat + remote	
Housing		Galvanised steel	
Motor life / warranty		50 000 h · 5 years	

MECHANICAL & SYSTEM

Mechanical	Data
Motor type	**Brushless DC (long-life)**
Control	**Adjustable thermostat, auto**
Power	**Solar + optional AC hybrid**
Ingress protection	**IP65 – IP68**
Noise	**Low-noise balanced blades**
Warranty	**5 years**

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

IDEAL FOR

- Greenhouses
- Poultry houses
- Factories
- Warehouses
- Workshops
- Livestock barns

Ventilate for free — sun-powered, around the clock.

Brushless solar fans with smart thermostats & AC/DC hybrid backup, from a Top-50 solar maker.

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Brushless DC motor — quiet, efficient, long-life
Smart thermostat — auto on/off by temperature
Solar + AC hybrid — ventilate day & night, 24/7
All-weather build — IP-rated, corrosion-proof

41000 m³/h max · **AC/DC** 24/7 hybrid · **IP68** rated motor · **5-yr** warranty

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SOLAR VENTILATION

Solar Ceiling Fan

BLDC solar ceiling fan — 6-speed remote comfort for off-grid homes, up to 70% less energy than AC fans

205 m³/min UP TO AIRFLOW

32 W ONLY AT FULL SPEED

- **BLDC motor** — 12 V, whisper-quiet
- **6-speed remote** — with timer
- **70% less energy** — vs AC ceiling fans
- **Battery option** — evening breeze

Comfort off the grid

- Runs directly on a 40 – 60 W solar panel — cooling where the grid can't reach
- 42" / 56" blade spans move up to 205 m³/min of air
- Ideal for off-grid homes, cabins, farm buildings & shops

Efficient BLDC drive

- Brushless 12 V DC motor uses only 24 – 32 W at full speed — ~70% less than AC fans
- 6 speeds + timer on RF remote control
- Soft start, silent operation (< 40 dB)

Flexible power

- Solar-direct, or 12 V battery bank for evening running
- -B version adds a 12.8 V / 12 Ah LiFePO4 battery (up to ~8 h medium speed)
- Optional AC/DC adapter for grid backup

Key specifications

Blade span	**42" / 56"**
Motor	**Brushless DC, 12 V**
Power	**24 / 32 W max**
Airflow	**up to 205 m³/min**
Speeds	**6 + timer (remote)**
Solar panel	**40 – 60 W**
Battery option	**12.8 V / 12 Ah LFP**
Warranty	**5 years**

PERFORMANCE

Airflow	**up to 205 m³/min**
Power draw	**only 24–32 W**
Solar input	**40 – 60 W**
Noise	**< 40 dB**

WHY COTECH

Run-tested & balanced
Every fan airflow- & noise-checked before shipment

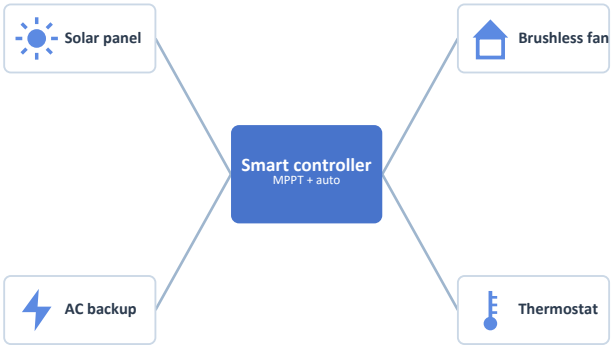
IDEAL FOR

- Off-grid homes
- Bedrooms / living
- Cabins & lodges
- Farm buildings
- Shops / kiosks
- RV & boats

APPLICATIONS

Homes · Shops · Farms · Off-grid

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP68 · ISO 9001 · FCC

Airflow, coverage & speed at full sun, 25 °C. CFM = m³/h ÷ 1.699. Specifications subject to change.

Solar Ceiling Fan — specifications

Model	CSCF-42	CSCF-56	CSCF-56B
Fan & motor			
Blade span	**42" (1070 mm)**	**56" (1420 mm)**	**56" (1420 mm)**
Blades		3 · aluminium, balanced	
Motor		Brushless DC (BLDC), 12 V	
Max power	**24 W**	**32 W**	**32 W**
Max speed	**320 RPM**	**350 RPM**	**350 RPM**
Airflow	**150 m³/min**	**205 m³/min**	**205 m³/min**
Speeds		6 + timer, RF remote	
Noise		< 40 dB(A)	
Power & build			
Solar panel	**Mono 40 W / 18 V**	**Mono 60 W / 18 V**	**Mono 60 W / 18 V**
Battery	—	—	**LiFePO4 12.8 V / 12 Ah in-line**
Battery runtime	—	—	**up to ~8 h (medium speed)**
AC/DC adapter		Optional (grid backup)	
Mounting		Standard ceiling mount, 250 mm downrod	
Warranty		5 years	

MECHANICAL & SYSTEM

Mechanical	Data
Motor type	**Brushless DC (long-life)**
Control	**6-speed RF remote + timer**
Power	**Solar + adapter / battery options**
Ingress protection	**IP65 – IP68**
Noise	**Low-noise balanced blades**
Warranty	**5 years**

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IDEAL FOR

- Off-grid homes
- Bedrooms / living
- Cabins & lodges
- Farm buildings
- Shops / kiosks
- RV & boats

Ventilate for free — sun-powered, around the clock.

Brushless solar fans with AC/DC & battery hybrid options, from a Top-50 solar maker.

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- **Brushless DC motor** — quiet, efficient, long-life
- **Runs on sunshine** — zero wiring, zero running cost
- **Hybrid backup options** — adapter / battery, up to 24 h
- **All-weather build** — IP-rated, corrosion-proof

24/7 hybrid options · **Brushless** DC motor · **Solar** zero-cost run · **5-yr** warranty

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SOLAR VENTILATION

Solar Ceiling Ventilator

In-ceiling solar exhaust ventilator — quiet 24/7 extraction for bathrooms, kitchens & cabins

200 CFM EXTRACT AIRFLOW

24/7 run HYBRID OPTIONS

- **Brushless DC** — quiet in-ceiling unit
- **Ø100 mm duct** — standard fitting
- **3 power modes** — solar / adapter / battery
- **340 m³/h** — strong extraction

Fresh air, free

- Extracts 340 m³/h (200 CFM) of stale, humid air through a standard Ø100 mm duct
- Runs on a 40 W solar panel — zero wiring to the grid, zero running cost
- Flush ceiling grille, quiet brushless motor

Three ways to run

- CSCV-40 — solar-direct: ventilates automatically whenever the sun shines
- CSCV-40DN — adds an 18 V AC/DC adapter for nonstop day & night running
- CSCV-40B — adds a 16 V / 9.6 Ah battery bank charged by a second panel

Easy install

- Drop-in ceiling install with Ø100 mm ducting to roof or wall outlet
- Ideal for bathrooms, kitchens, cabins, container offices & site huts
- 5-year warranty

Key specifications

Type	**In-ceiling exhaust ventilator**
Airflow	**340 m³/h (200 CFM)**
Duct outlet	**Ø100 mm**
Solar panel	**Mono 40 W / 24 V**
Motor	**Brushless DC**
Power modes	**Solar / +adapter / +battery**
Noise	**< 40 dB**
Warranty	**5 years**

PERFORMANCE

Airflow		**200 CFM**
Duct size		**Ø100 mm standard**
Solar input		**40 W**
Run time		**up to 24 h (DN/B)**

WHY COTECH

Run-tested & balanced
Every fan airflow- & noise-checked before shipment

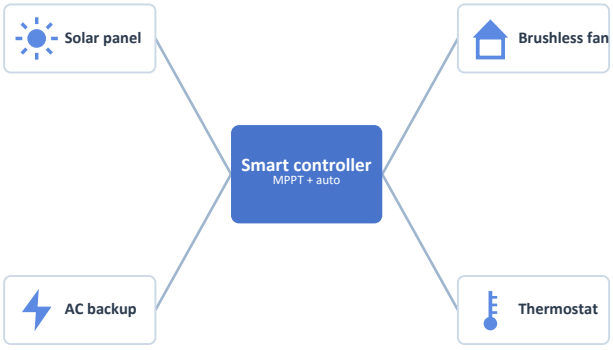
IDEAL FOR

- Bathrooms
- Kitchens
- Cabins / huts
- Container offices
- Laundries
- Storage rooms

APPLICATIONS

Homes · Offices · Site huts · Farms

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP68 · ISO 9001 · FCC

Airflow, coverage & speed at full sun, 25 °C. CFM = m³/h ÷ 1.699. Specifications subject to change.

Solar Ceiling Ventilator — specifications

Model	CSCV-40	CSCV-40DN	CSCV-40B
Ventilation			
Airflow		340 m³/h (200 CFM)	
Air outlet		Ø100 mm duct	
Motor		Brushless DC, quiet	
Grille		Flush ceiling grille, white	
Power			
Solar panel	**Mono 40 W / 24 V**	**Mono 40 W / 24 V**	**40 W / 24 V + 40 W / 21 V**
Backup energy	—	**18 V × 1.5 A AC/DC adapter**	**16 V / 9.6 Ah solar battery**
Work time	**Sunny hours**	**Day & night (grid backup)**	**Day & night (battery)**
Auto switching	—	**Solar-priority, auto**	**Solar-priority, auto**
Warranty		5 years	

MECHANICAL & SYSTEM

Mechanical	Data
Motor type	**Brushless DC (long-life)**
Control	**Auto solar-priority switching**
Power	**Solar + adapter / battery options**
Ingress protection	**IP65 – IP68**
Noise	**Low-noise balanced blades**
Warranty	**5 years**

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IDEAL FOR

- Bathrooms
- Kitchens
- Cabins / huts
- Container offices
- Laundries
- Storage rooms

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- **Brushless DC motor** — quiet, efficient, long-life
- **Runs on sunshine** — zero wiring, zero running cost
- **Hybrid backup options** — adapter / battery, up to 24 h
- **All-weather build** — IP-rated, corrosion-proof

24/7 hybrid options · **Brushless** DC motor · **Solar** zero-cost run · **5-yr** warranty

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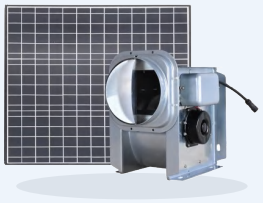
SOLAR VENTILATION

Centrifugal Ducted Fan

Solar centrifugal blower for ducted ventilation — high static pressure for 6″ / 8″ duct runs

372 CFM UP TO AIRFLOW

6/8 inch DUCT SIZES



- **Centrifugal blower** — high static pressure
- **6″ / 8″ duct** — standard sizes
- **Solar / grid / battery** — 3 power modes
- **Brushless DC** — long-life, quiet

Pressure for real ducts

- Centrifugal impeller keeps airflow strong through long duct runs, bends & filters
- 6″ (Ø150 mm) & 8″ (Ø200 mm) models move 273 / 372 CFM
- Compact housing mounts in ceilings, walls & plant rooms

Pick your power mode

- Solar-direct models run free whenever the sun shines
- -DN versions add an AC/DC adapter for 24-hour running
- Battery versions (806 / 1208) run day & night on stored solar

Built to last

- Brushless DC motor, balanced impeller — quiet & maintenance-free
- Steel housing with inline mounting flanges
- 5-year warranty

Key specifications

Type	**Centrifugal inline blower**
Duct sizes	**6″ / 8″ (Ø150 / 200 mm)**
Airflow	**273 / 372 CFM**
Solar panel	**40 – 120 W**
Motor	**Brushless DC**
Power modes	**Solar / +adapter / +battery**
Housing	**Steel, inline flanges**
Warranty	**5 years**

PERFORMANCE

Airflow		**up to 372 CFM**
Static pressure		**centrifugal**
Solar input		**40 – 120 W**
Run time		**up to 24 h**

WHY COTECH

Run-tested & balanced
Every fan airflow- & noise-checked before shipment

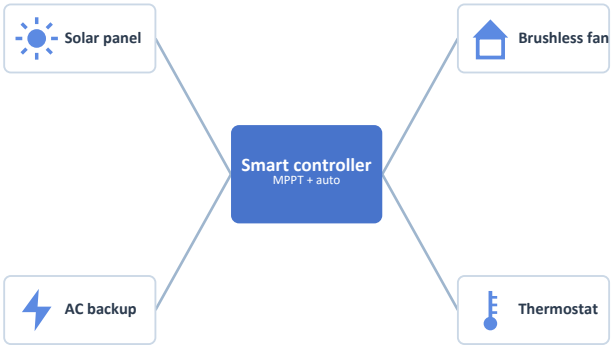
IDEAL FOR

- Ducted extraction
- Grow rooms
- Workshops
- Greenhouses
- Basements
- Container units

APPLICATIONS

Homes · Workshops · Greenhouses · Basements

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP68 · ISO 9001 · FCC

Airflow, coverage & speed at full sun, 25 °C. CFM = $m^3/h \div 1.699$. Specifications subject to change.

Centrifugal Ducted Fan — specifications

Model	CSCDF-406	CSCDF-408	CSCDF-806	CSCDF-1208
Blower & duct				
Duct size	6" / Ø150 mm	8" / Ø200 mm	6" / Ø150 mm	8" / Ø200 mm
Airflow	273 CFM	372 CFM	273 CFM	372 CFM
Fan host size	293×285×185 mm	350×360×285 mm	293×285×185 mm	350×360×285 mm
Motor	Brushless DC centrifugal			
Power				
Solar panel	40 W / 19.5 V	60 W / 19.5 V	80 W (2×40 W)	120 W (2×60 W)
Backup energy	—	—	16 V / 9.6 Ah battery	16 V / 19.2 Ah battery
Work time	Sunny hours	Sunny hours	Day & night	Day & night
AC/DC 24-h variant	CSCDF-40DN	CSCDF-60DN	—	—
Warranty	5 years			

MECHANICAL & SYSTEM

Mechanical	Data
Motor type	Brushless DC (long-life)
Control	Auto solar-priority switching
Power	Solar + adapter / battery options
Ingress protection	IP65 – IP68
Noise	Low-noise balanced blades
Warranty	5 years

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

IDEAL FOR

- Ducted extraction
- Grow rooms
- Workshops
- Greenhouses
- Basements
- Container units

Ventilate for free — sun-powered, around the clock.

Brushless solar fans with AC/DC & battery hybrid options, from a Top-50 solar maker.

COTECH SOLAR — a vertically-integrated solar manufacturer since 2005, a Top-50 global brand.
20 GW shipped to 120+ countries: cells · modules · storage · mounting · complete systems.

- **Brushless DC motor** — quiet, efficient, long-life
- **Runs on sunshine** — zero wiring, zero running cost
- **Hybrid backup options** — adapter / battery, up to 24 h
- **All-weather build** — IP-rated, corrosion-proof

24/7 hybrid options · **Brushless** DC motor · **Solar** zero-cost run · **5-yr** warranty

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SOLAR VENTILATION

Dome Tent Fan

Solar dome exhaust fan for tents, yurts & sheds — 14″ blades, IP68 motor, app & remote control

1344 CFM UP TO AIRFLOW

45 dB QUIET OPERATION

- **14″ · 7 blades** — nylon-fiberglass
- **IP68 BLDC motor** — all-weather
- **App + remote** — temp-humidity control
- **AC/DC backup** — 24-h option

Big air for fabric roofs

- 14″ seven-blade impeller moves up to 2284 m³/h (1344 CFM)
- Low-profile galvanised-steel dome sheds rain & UV
- Fits glamping tents, yurts, marquees, sheds & kiosks

Smart climate control

- Temperature-humidity remote + app control (optional)
- Auto-runs on solar by day; AC/DC adapter option for nights
- IP68 brushless motor — sealed against dust & rain

Simple install

- Ø368 mm duct with circular fan guard & anti-UV powder coat
- 25 W panel (935 RPM) or 60 W panel (1264 RPM) versions
- 5-year warranty

Key specifications

Blades	**14″ nylon-fiberglass × 7**
Motor	**Brushless DC, IP68**
Airflow	**956 / 1344 CFM**
Solar panel	**Mono 25 / 60 W**
Control	**Remote + app (optional)**
Backup	**AC/DC adapter (optional)**
Noise	**45 dB**
Warranty	**5 years**

PERFORMANCE

Airflow		**up to 1344 CFM**
Ingress		**IP68 motor**
Solar input		**25 – 60 W**
Noise		**45 dB**

WHY COTECH

Run-tested & balanced
Every fan airflow- & noise-checked before shipment

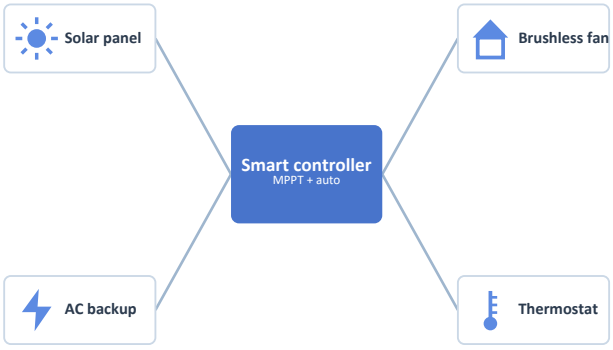
IDEAL FOR

- Glamping tents
- Yurts / domes
- Marquees
- Sheds & kiosks
- Greenhouses
- Animal shelters

APPLICATIONS

Glamping · Farms · Kiosks · Off-grid

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP68 · ISO 9001 · FCC

Airflow, coverage & speed at full sun, 25 °C. CFM = m³/h ÷ 1.699. Specifications subject to change.

Solar Dome Tent Fan — specifications

Model	CSDTF-25	CSDTF-60
Fan & motor		
Fan blades	14" nylon-fiberglass, 7 pcs	
Motor	Brushless DC, IP68	
Motor speed	**935 RPM**	**1264 RPM**
Airflow	**1626 m³/h (956 CFM)**	**2284 m³/h (1344 CFM)**
Air duct	Ø368 mm	
Noise	45 dB(A)	
Power & build		
Solar panel	**Mono 25 W / 21.6 V (354×354 mm)**	**Mono 60 W / 24 V (575×495 mm)**
AC/DC adapter (opt.)	**20.5 V / 1.5 A**	**24 V / 2.5 A**
Control (opt.)	Temp-humidity remote + app	
Housing	Galvanised steel, anti-UV powder coat	
Fan base	**Ø495 mm**	**600 × 600 mm**
Host size	**530×530×225 mm**	**600×600×255 mm**
Colour	**White**	**Black**
Warranty	5 years	

MECHANICAL & SYSTEM

Mechanical	Data
Motor type	**Brushless DC (long-life)**
Control	**Temp-humidity remote + app (opt.)**
Power	**Solar + adapter / battery options**
Ingress protection	**IP65 – IP68**
Noise	**Low-noise balanced blades**
Warranty	**5 years**

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

IDEAL FOR

- Glamping tents
- Yurts / domes
- Marquees
- Sheds & kiosks
- Greenhouses
- Animal shelters

Ventilate for free — sun-powered, around the clock.

Brushless solar fans with AC/DC & battery hybrid options, from a Top-50 solar maker.

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20 GW shipped to 120+ countries: cells · modules · storage · mounting · complete systems.

- **Brushless DC motor** — quiet, efficient, long-life
- **Runs on sunshine** — zero wiring, zero running cost
- **Hybrid backup options** — adapter / battery, up to 24 h
- **All-weather build** — IP-rated, corrosion-proof

24/7 hybrid options · **Brushless** DC motor · **Solar** zero-cost run · **5-yr** warranty

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SOLAR VENTILATION

Water Tank Cooler

Solar cooling fan for rooftop water tanks — keeps stored water cool with battery-backed 24 h running

22 h BATTERY RUNTIME

50 W SOLAR PANEL

- **Cooler water** for hot climates
- **LiFePO4 battery** 21–22 h backup
- **Smart controller** solar-priority auto
- **AC/DC option** nonstop running

Cool water in hot climates

- Continuously vents heat from rooftop water tanks — noticeably cooler tap water
- Runs free on a 50 W solar panel all sunny day
- Fits standard tank openings; weatherproof build

Runs through the night

- In-built 16 V / 9.6 Ah LiFePO4 battery charges in ~4.8 h of strong sun
- A full battery runs the fan 21 – 22 h after sunset
- Smart waterproof controller auto-switches solar / battery / grid

Durable & safe

- LiFePO4 chemistry: 2000+ cycles, -20 – 60 °C operating range
- Optional AC/DC adapter (100-240 V in, 20.5 V out) for nonstop mains backup
- UL / CE / UK / AU adapter standards; 5-year fan warranty

Key specifications

Solar panel	**Mono 50 W / 21 V**
Battery	**LiFePO4 16 V / 9.6 Ah**
Charge time	**~4.8 h strong sun**
Battery runtime	**21 – 22 h**
Controller	**Smart, waterproof**
AC/DC adapter	**Optional, 100-240 V**
Operating temp	**-20 – 60 °C**
Warranty	**5 years**

PERFORMANCE

Battery runtime		**21–22 h**
Charge time		**4.8 h full sun**
Solar input		**50 W**
Cycle life		**2000+ cycles**

WHY COTECH

Run-tested & balanced
Every fan airflow- & noise-checked before shipment

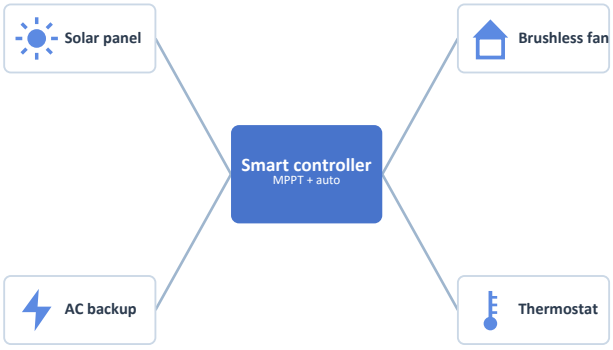
IDEAL FOR

- Rooftop tanks
- Hot climates
- Villas & homes
- Apartments
- Farms
- Commercial roofs

APPLICATIONS

Homes · Apartments · Hot climates · Farms

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP68 · ISO 9001 · FCC

Airflow, coverage & speed at full sun, 25 °C. CFM = $m^3/h \div 1.699$. Specifications subject to change.

Solar Water Tank Cooler — specifications

Specification	Data
System	
Solar panel	Mono 50 W / 21 V (495×500×67 mm)
Fan motor	Brushless DC, weatherproof
Controller	Smart waterproof, solar-priority auto-switch
Connection	3 m cable, battery system to fan
Battery & backup	
Battery	LiFePO4 16 V / 9.6 Ah, in-built, solar-charged
Charge time	≈ 4.8 h under strong sun
Runtime (battery)	21 – 22 h in sunless time
Cycle life	2000+ cycles
Operating temperature	-20 – 60 °C
AC/DC adapter (opt.)	In 100-240 V · out 20.5 V / 1.5 A · UL / CE / UK / AU
Warranty	5 years

MECHANICAL & SYSTEM

Mechanical	Data
Motor type	**Brushless DC (long-life)**
Control	**Smart solar-priority controller**
Power	**Solar + adapter / battery options**
Ingress protection	**IP65 – IP68**
Noise	**Low-noise balanced blades**
Warranty	**5 years**

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120+ countries
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IDEAL FOR

- Rooftop tanks
- Hot climates
- Villas & homes
- Apartments
- Farms
- Commercial roofs

Ventilate for free — sun-powered, around the clock.

Brushless solar fans with AC/DC & battery hybrid options, from a Top-50 solar maker.

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Brushless DC motor — quiet, efficient, long-life
Runs on sunshine — zero wiring, zero running cost
Hybrid backup options — adapter / battery, up to 24 h
All-weather build — IP-rated, corrosion-proof

24/7 hybrid options
Brushless DC motor
Solar zero-cost run
5-yr warranty

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SOLAR VENTILATION

Solar LED Skylight

Wire-free solar LED skylight — daylight indoors through a flush LED panel, with radar-sensing smart control

3510 lm UP TO BRIGHTNESS

50000 h LED LIFESPAN

- **Real daylight feel** — flush Ø300 mm panel
- **Radar sensor** — auto on/off
- **Remote + dimming** — flexible control
- **Battery / AC options** — light day & night

Daylight without a hole

- Brings bright 5000-5500 K daylight into windowless rooms — no roof glazing, no leaks
- Flush Ø300 × 12 mm LED panel with SMD2835 chips (50 000 h)
- Up to 3510 lm solar-direct — brightness follows the sun like a real skylight

Smart & effortless

- Radar sensor versions light up when someone enters, off when they leave
- Remote control: on / off / dim from anywhere in the room
- 15 m cable with quick connector between panel & light

A version for every room

- CSLS-30 solar-direct · -30DN battery (11.6 h) · -30B AC backup · -60DN 60 W
- Corridors, bathrooms, wardrobes, garages, barns & warehouses
- 5-year warranty

Key specifications

Light fixture	**Ø300 × 12 mm LED panel**
LED	**SMD2835 · 50 000 h**
Colour temp	**5000 – 5500 K**
Brightness	**up to 3510 lm**
Solar panel	**30 / 60 W**
Control	**Radar sensor + remote**
Cable	**15 m quick-connect**
Warranty	**5 years**

PERFORMANCE

WHY COTECH

Aged & lumen-tested
Every skylight burn-in & photometry checked

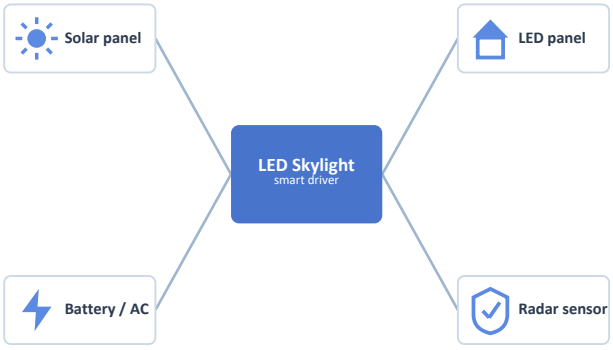
IDEAL FOR

- Corridors
- Bathrooms
- Wardrobes
- Garages
- Barns / sheds
- Warehouses

APPLICATIONS

Homes · Warehouses · Garages · Barns

SYSTEM TOPOLOGY



CERTIFICATION & QUALIFICATION

CE · RoHS · IEC · IP68 · ISO 9001 · FCC

Lumens & runtime at full charge, 25 °C. Specifications subject to change.

Solar LED Skylight — specifications

Model	CSLS-30	CSLS-30DN	CSLS-30B	CSLS-60DN
Light				
Light fixture		Ø300 × 12 mm LED panel, flush mounted		
Light source		SMD2835 LED chips · 50 000 h lifespan		
Colour temperature		5000 – 5500 K (pure white)		
Brightness	**max 3510 lm**	**1158 lm**	**1158 lm**	**1156 lm**
Power & control				
Solar panel	**Mono 30 W**	**Mono 30 W**	**Mono 30 W**	**Mono 60 W, adjustable**
Energy backup	—	**19.2 V / 6.4 Ah battery**	**AC/DC adapter**	**AC/DC adapter**
Night lighting	—	**11.6 h (5.5 h charge)**	**Grid backup**	**Grid backup**
Radar sensor	—	**Included**	**Included**	**Included**
Remote control		On / off / dim		
Cable		15 m with quick connector		
Warranty		5 years		

MECHANICAL & SYSTEM

Mechanical	Data
LED lifespan	**50 000 h (SMD2835)**
Control	**Radar sensor + RF remote, dimmable**
Power	**Solar-direct / battery / AC backup**
Fixture	**Ø300 × 12 mm, flush mounted**
Cable	**15 m with quick connector**
Warranty	**5 years**

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

IDEAL FOR

- Corridors
- Bathrooms
- Wardrobes
- Garages
- Barns / sheds
- Warehouses

Real daylight, anywhere — no roof glazing, no wiring.

Solar LED skylights with radar-sensing smart control, from a Top-50 solar maker.

COTECH SOLAR — a vertically-integrated solar manufacturer since 2005, a Top-50 global brand.
20 GW shipped to 120+ countries: cells · modules · storage · mounting · complete systems.

- **Daylight feel** — follows the sun like a skylight
- **Radar smart control** — auto on/off when people enter
- **Battery / AC options** — light day & night
- **Leak-free install** — no roof opening needed

3510 lm max · **50 000 h** LED life · **Radar** smart sensor · **5-yr** warranty

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