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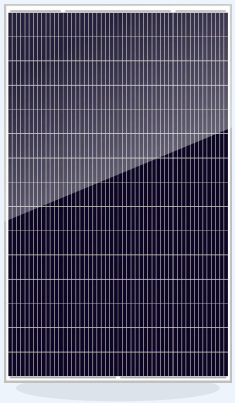
OFF-GRID MODULE

Off-Grid 182 mm · 40–90 W

Compact 182 mm off-grid modules, 40–90 W — 12 V battery charging for RV, marine, gates & small kits

40–90 W POWER RANGE

19.1 % UP TO MODULE EFF.



- **Half-cut mono** high-efficiency cells
- **12 V-ready** PWM / MPPT charging
- **Compact & light** from just 3.0 kg
- **IP67 · 5400 Pa** weatherproof

Matched to off-grid batteries

- Voltage matched to charge 12 V / 24 V / 48 V banks directly via PWM or MPPT
- Ideal for RV, caravan, boat, cabin, solar pump & off-grid lighting
- Every wattage self-consistent — no over-rated specs

High-efficiency half-cut mono

- Monocrystalline half-cut cells — up to 19.1% module efficiency
- Low −0.29 %/°C temperature loss; strong morning / evening yield
- Better long-term reliability (low LID / LeTID)

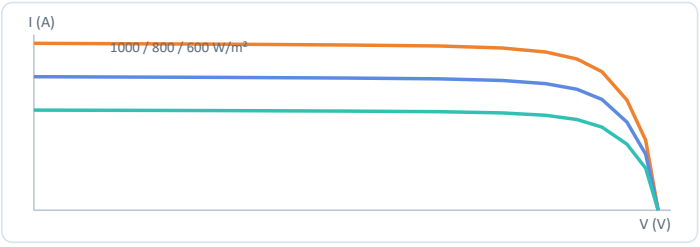
Rugged & weatherproof

- Anodised aluminium frame, anti-reflective tempered glass
- IP67 junction box, 5400 Pa front load, −40 ~ +85 °C
- EL & flash-tested, power-binned, 25-year linear power warranty

Key specifications

Power range	**40 – 90 W**
Cell	**Half-cut mono**
Voc class	**≈ 22 – 25 V**
Module efficiency	**up to 19.1%**
Max system voltage	**700 / 1000 V**
Operating temp	**–40 ~ +85 °C**
Connector	**MC4-compatible**
Warranty	**12 yr / 25 yr**

MODULE I–V CURVE



WHY COTECH

EL & flash tested
100% inspected, power-binned & traceable

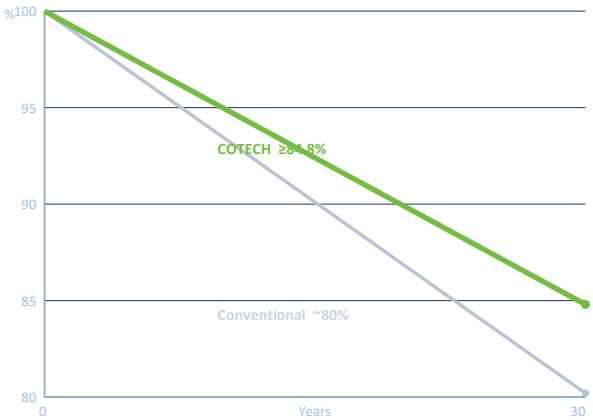
IDEAL FOR

- RV / caravan
- Marine / boat
- Gate & barrier
- Small DC kits
- Solar lighting
- Telecom sensors

APPLICATIONS

RV / marine · Cabin · Lighting · Telecom

PERFORMANCE WARRANTY



12-yr product · 25-yr power

CERTIFICATION & QUALIFICATION

IEC 61215 · IEC 61730 · CE · RoHS · ISO 9001

STC: 1000 W/m², 25 °C, AM1.5. Electricals per COTECH source datasheets; every bin self-consistent. Specs subject to change.

Off-Grid 182 mm · 40–90 W — specifications

Rating	40 W	50 W	60 W	70 W	80 W	90 W
Electrical characteristics (STC)						
Module code	CS-40M10	CS-50M10	CS-60M10	CS-70M10	CS-80M10	CS-90M10
Maximum power Pmax (W)	40	50	60	70	80	90
Open-circuit voltage Voc (V)	22.2	22.3	22.2	25.0	22.2	24.9
Short-circuit current Isc (A)	2.27	2.73	3.41	3.41	4.55	4.55
Voltage at Pmax Vmp (V)	18.7	19.4	18.7	21.7	18.7	21.0
Current at Pmax Imp (A)	2.14	2.58	3.21	3.22	4.28	4.28
Module efficiency ηm (%)	17.9	19.0	18.2	19.1	18.8	19.1
Power tolerance	0 / +5 W					
Max. system voltage (V)	700	700	700	700	700	700
Max. series fuse (A)	10	10	10	10	10	10
Temperature characteristics						
Temp. coefficient of Pmax	−0.29 %/°C					
Temp. coefficient of Voc	−0.25 %/°C					
Temp. coefficient of Isc	+0.045 %/°C					
NOCT	45 ± 2 °C					
Operating temperature	−40 ~ +85 °C					
Mechanical characteristics						
Cell type	Monocrystalline half-cut					
Cell size	182mm · 32 cells	182mm · 32 cells	182mm · 32 cells	182mm · 32 cells	182mm · 32 cells	182mm · 36 cells
Dimensions (mm)	565×395×25mm	665×395×25mm	430×765×25mm	480×765×25mm	555×765×25mm	615×765×25mm
Weight (kg)	3.0	3.2	3.6	4.0	4.6	5.1
Front glass	2.0–3.2 mm tempered, anti-reflective					
Frame	Anodised aluminium alloy					
Junction box	IP67, bypass diodes					
Cable / connector	50–90 cm (cust.) · MC4-compatible					
Mechanical load	5400 Pa front / 2400 Pa rear					

MECHANICAL & SYSTEM

Mechanical	Data
Cell	**Monocrystalline, half-cut**
Front glass	**2.0–3.2 mm tempered · anti-reflective**
Frame	**Anodised aluminium alloy**
Junction box / diodes	**IP67 · bypass diodes**
Connector	**MC4-compatible · 50–90 cm cable**
Product / power warranty	**12 years / 25 years (linear)**

COTECH SOLAR — vertically-integrated cell-to-module manufacturing

20 GW shipped

120+ countries

IEC · CE certified

IDEAL FOR

- RV / caravan
- Marine / boat
- Gate & barrier
- Small DC kits
- Solar lighting
- Telecom sensors

Power your off-grid life — at any size.

26 half-cut mono off-grid modules, 40–380 W, EL & flash-tested, from a Top-50 vertically-integrated maker.

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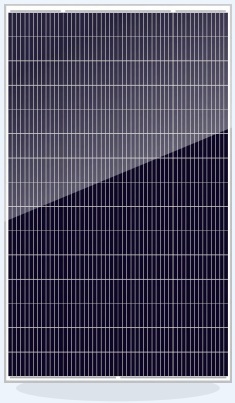
OFF-GRID MODULE

Off-Grid 182 mm · 100–190 W

Standard 182 mm off-grid modules, 100–190 W — 12 V / 24 V charging for cabins, pumps & telecom

100–190 W POWER RANGE

21.4 % UP TO MODULE EFF.



- **Half-cut mono** — up to 21.4% eff.
- **12 V / 24 V** — battery-ready
- **Strong low-light** — −0.29 %/°C
- **IP67 · 5400 Pa** — weatherproof

Matched to off-grid batteries

- Voltage matched to charge 12 V / 24 V / 48 V banks directly via PWM or MPPT
- Ideal for RV, caravan, boat, cabin, solar pump & off-grid lighting
- Every wattage self-consistent — no over-rated specs

High-efficiency half-cut mono

- Monocrystalline half-cut cells — up to 21.4% module efficiency
- Low −0.29 %/°C temperature loss; strong morning / evening yield
- Better long-term reliability (low LID / LeTID)

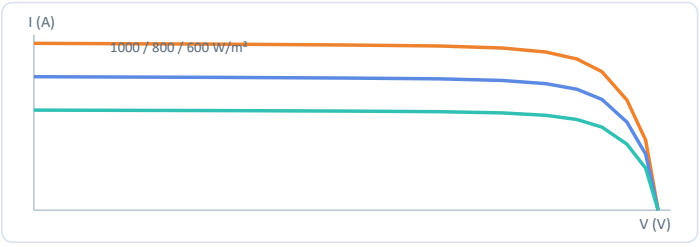
Rugged & weatherproof

- Anodised aluminium frame, anti-reflective tempered glass
- IP67 junction box, 5400 Pa front load, −40 ~ +85 °C
- EL & flash-tested, power-binned, 25-year linear power warranty

Key specifications

Power range	**100 – 190 W**
Cell	**Half-cut mono**
Voc class	**≈ 22 – 25 V**
Module efficiency	**up to 21.4%**
Max system voltage	**700 / 1000 V**
Operating temp	**−40 ~ +85 °C**
Connector	**MC4-compatible**
Warranty	**12 yr / 25 yr**

MODULE I–V CURVE



WHY COTECH

EL & flash tested
100% inspected, power-binned & traceable

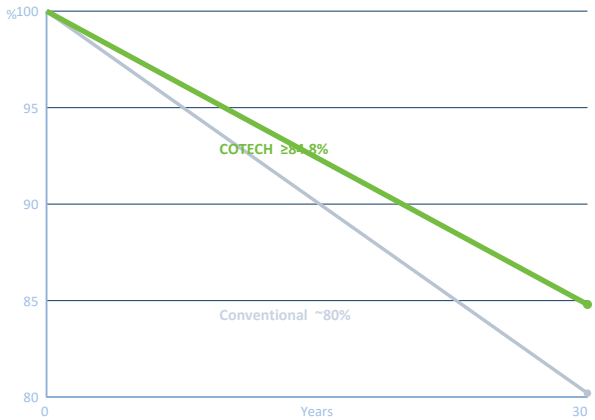
IDEAL FOR

- Off-grid cabin
- Solar pump
- RV / caravan
- Marine
- Telecom
- Solar lighting

APPLICATIONS

Cabin · Pump · RV / marine · Telecom

PERFORMANCE WARRANTY



12-yr product · **25-yr power**

CERTIFICATION & QUALIFICATION

IEC 61215 · IEC 61730 · CE · RoHS · ISO 9001

STC: 1000 W/m², 25 °C, AM1.5. Electricals per COTECH source datasheets; every bin self-consistent. Specs subject to change.

Off-Grid 182 mm · 100–190 W — specifications

Rating	100 W	110 W	120 W	130–140 W	150–170 W	180–190 W
Electrical characteristics (STC)						
Module code	CS-100M10	CS-110M10	CS-120M10	CS-130~140M10	CS-150~170M10	CS-180~190M10
Maximum power Pmax (W)	100	110	120	130–140	150–170	180–190
Open-circuit voltage Voc (V)	22.3	24.9	22.2	24.5–25.0	21.7–22.5	24.9–25.2
Short-circuit current Isc (A)	5.46	5.39	6.82	6.50–6.81	8.53–9.15	9.09–9.15
Voltage at Pmax Vmp (V)	19.4	21.5	18.7	21.1–21.7	18.6–19.7	21.0–22.0
Current at Pmax Imp (A)	5.16	5.11	6.42	6.16–6.44	8.07–8.64	8.56–8.62
Module efficiency ηm (%)	20.1	19.8	19.7	19.1–20.6	18.9–21.4	20.3–21.4
Power tolerance	0 / +5 W					
Max. system voltage (V)	700	700	700	700	700	700
Max. series fuse (A)	10	10	10	10	15	-
Temperature characteristics						
Temp. coefficient of Pmax	−0.29 %/°C					
Temp. coefficient of Voc	−0.25 %/°C					
Temp. coefficient of Isc	+0.045 %/°C					
NOCT	45 ± 2 °C					
Operating temperature	−40 ~ +85 °C					
Mechanical characteristics						
Cell type	Monocrystalline half-cut					
Cell size	182mm · 28 cells	182mm · 36 cells	182mm · 32 cells	182mm · 36 cells	182mm · 32 cells	182mm · 36 cells
Dimensions (mm)	650×765×25mm	725×765×25mm	795×765×25mm	890×765×25mm	1040×765×30mm	1160×765×30mm
Weight (kg)	5.4	6.0	6.6	7.3	8.6	9.6
Front glass	2.0–3.2 mm tempered, anti-reflective					
Frame	Anodised aluminium alloy					
Junction box	IP67, bypass diodes					
Cable / connector	50–90 cm (cust.) · MC4-compatible					
Mechanical load	5400 Pa front / 2400 Pa rear					

MECHANICAL & SYSTEM

Mechanical	Data
Cell	**Monocrystalline, half-cut**
Front glass	**2.0–3.2 mm tempered · anti-reflective**
Frame	**Anodised aluminium alloy**
Junction box / diodes	**IP67 · bypass diodes**
Connector	**MC4-compatible · 50–90 cm cable**
Product / power warranty	**12 years / 25 years (linear)**

COTECH SOLAR — vertically-integrated cell-to-module manufacturing

20 GW shipped

120+ countries

IEC · CE certified

IDEAL FOR

- Off-grid cabin
- Solar pump
- RV / caravan
- Marine
- Telecom
- Solar lighting

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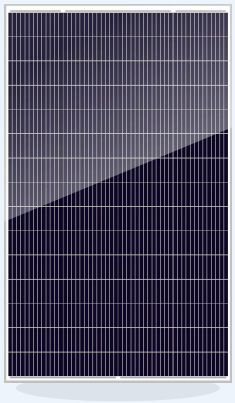
OFF-GRID MODULE

Off-Grid 182 mm · 240–320 W

Large 182 mm off-grid modules, 240–320 W — 24 V systems, solar pumps & hybrid off-grid plants

320 W UP TO POWER

21.9 % UP TO MODULE EFF.



- **Half-cut mono** — up to 21.9% eff.
- **24 V systems** — string-ready
- **More W per panel** — fewer panels & cabling
- **1000 V · IP67** — system-ready

Matched to off-grid batteries

- Voltage matched to charge 12 V / 24 V / 48 V banks directly via PWM or MPPT
- Ideal for RV, caravan, boat, cabin, solar pump & off-grid lighting
- Every wattage self-consistent — no over-rated specs

High-efficiency half-cut mono

- Monocrystalline half-cut cells — up to 21.9% module efficiency
- Low −0.29 %/°C temperature loss; strong morning / evening yield
- Better long-term reliability (low LID / LeTID)

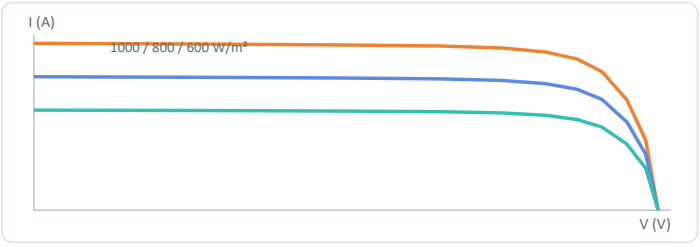
Rugged & weatherproof

- Anodised aluminium frame, anti-reflective tempered glass
- IP67 junction box, 5400 Pa front load, −40 ~ +85 °C
- EL & flash-tested, power-binned, 25-year linear power warranty

Key specifications

Power range	**240 – 320 W**
Cell	**Half-cut mono**
Voc class	**≈ 22 – 28 V**
Module efficiency	**up to 21.9%**
Max system voltage	**700 / 1000 V**
Operating temp	**–40 ~ +85 °C**
Connector	**MC4-compatible**
Warranty	**12 yr / 25 yr**

MODULE I–V CURVE



WHY COTECH

EL & flash tested
100% inspected, power-binned & traceable

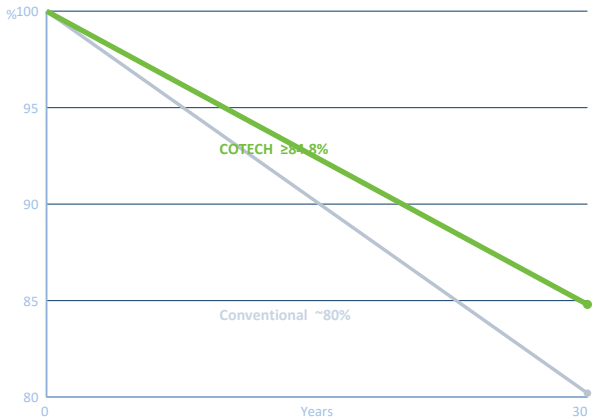
IDEAL FOR

- Off-grid home
- Solar pump
- Hybrid plant
- Telecom
- Agriculture
- C & I backup

APPLICATIONS

Off-grid home · Pump · C & I · Hybrid

PERFORMANCE WARRANTY



12-yr product | **25-yr power**

CERTIFICATION & QUALIFICATION

IEC 61215 · IEC 61730 · CE · RoHS · ISO 9001

STC: 1000 W/m², 25 °C, AM1.5. Electricals per COTECH source datasheets; every bin self-consistent. Specs subject to change.

Off-Grid 182 mm · 240–320 W — specifications

Rating	240–250 W	260–290 W	300–320 W
Electrical characteristics (STC)			
Module code	**CS-240~250M10**	**CS-260~290M10**	**CS-300~320M10**
Maximum power Pmax (W)	**240–250**	**260–290**	**300–320**
Open-circuit voltage Voc (V)	**22.2–22.3**	**24.5–25.4**	**27.5–28.2**
Short-circuit current Isc (A)	**13.64–13.65**	**12.99–13.76**	**13.19–13.70**
Voltage at Pmax Vmp (V)	**18.7–19.4**	**21.0–22.2**	**23.8–24.7**
Current at Pmax Imp (A)	**12.84–12.89**	**12.32–13.06**	**12.59–12.97**
Module efficiency ηm (%)	**20.4–21.2**	**19.7–22.0**	**20.5–21.9**
Power tolerance		0 / +5 W	
Max. system voltage (V)	**1000**	**1000**	**1000**
Max. series fuse (A)	**20**	**20**	**20**
Temperature characteristics			
Temp. coefficient of Pmax		−0.29 %/°C	
Temp. coefficient of Voc		−0.25 %/°C	
Temp. coefficient of Isc		+0.045 %/°C	
NOCT		45 ± 2 °C	
Operating temperature		−40 ~ +85 °C	
Mechanical characteristics			
Cell type		Monocrystalline half-cut	
Cell size	**182mm · 64 cells**	**182mm · 72 cells**	**182mm · 80 cells**
Dimensions (mm)	**1540×765×30mm**	**1722×765×30mm**	**1909×765×30mm**
Weight (kg)	**12.7**	**14.2**	**15.2**
Front glass		2.0–3.2 mm tempered, anti-reflective	
Frame		Anodised aluminium alloy	
Junction box		IP67, bypass diodes	
Cable / connector		50–90 cm (cust.) · MC4-compatible	
Mechanical load		5400 Pa front / 2400 Pa rear	

MECHANICAL & SYSTEM

Mechanical	Data
Cell	**Monocrystalline, half-cut**
Front glass	**2.0–3.2 mm tempered · anti-reflective**
Frame	**Anodised aluminium alloy**
Junction box / diodes	**IP67 · bypass diodes**
Connector	**MC4-compatible · 50–90 cm cable**
Product / power warranty	**12 years / 25 years (linear)**

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20 GW shipped

120+ countries

IEC · CE certified

IDEAL FOR

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- Solar pump
- Hybrid plant
- Telecom
- Agriculture
- C & I backup

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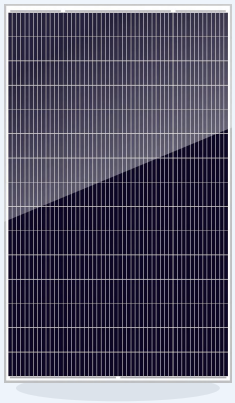
OFF-GRID MODULE

Off-Grid 210 mm · 80–190 W

Compact 210 mm off-grid modules, 80–190 W — higher-current 12 V / 24 V charging

80–190 W POWER RANGE

21.4 % UP TO MODULE EFF.



- **210 mm half-cut** — high current
- **12 V / 24 V** — battery-ready
- **Strong low-light** — −0.29 %/°C
- **IP67 · 5400 Pa** — weatherproof

Matched to off-grid batteries

- Voltage matched to charge 12 V / 24 V / 48 V banks directly via PWM or MPPT
- Ideal for RV, caravan, boat, cabin, solar pump & off-grid lighting
- Every wattage self-consistent — no over-rated specs

High-efficiency half-cut mono

- Monocrystalline half-cut cells — up to 21.4% module efficiency
- Low −0.29 %/°C temperature loss; strong morning / evening yield
- Better long-term reliability (low LID / LeTID)

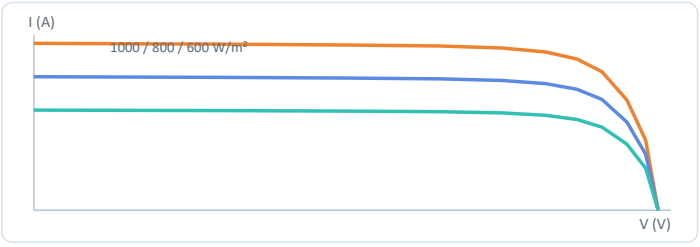
Rugged & weatherproof

- Anodised aluminium frame, anti-reflective tempered glass
- IP67 junction box, 5400 Pa front load, −40 ~ +85 °C
- EL & flash-tested, power-binned, 25-year linear power warranty

Key specifications

Power range	**80 – 190 W**
Cell	**Half-cut mono**
Voc class	**≈ 21 – 25 V**
Module efficiency	**up to 21.4%**
Max system voltage	**700 / 1000 V**
Operating temp	**−40 ~ +85 °C**
Connector	**MC4-compatible**
Warranty	**12 yr / 25 yr**

MODULE I–V CURVE



WHY COTECH

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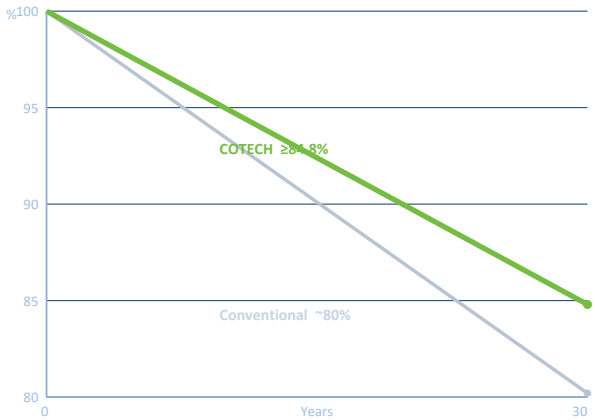
IDEAL FOR

- RV / caravan
- Marine / boat
- Off-grid cabin
- Solar pump
- Telecom
- Solar lighting

APPLICATIONS

RV / marine · Cabin · Pump · Telecom

PERFORMANCE WARRANTY



12-yr product · 25-yr power

CERTIFICATION & QUALIFICATION

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STC: 1000 W/m², 25 °C, AM1.5. Electricals per COTECH source datasheets; every bin self-consistent. Specs subject to change.

Off-Grid 210 mm · 80–190 W — specifications

Rating	80 W	90 W	100–110 W	120–130 W	150–170 W	180–190 W
Electrical characteristics (STC)						
Module code	CS-80M12	CS-90M12	CS-100~110M12	CS-120~130M12	CS-150~170M12	CS-180~190M12
Maximum power Pmax (W)	80	90	100–110	120–130	150–170	180–190
Open-circuit voltage Voc (V)	21.7	24.4	21.2–22.5	24.4–25.8	21.2–22.7	24.4–25.5
Short-circuit current Isc (A)	4.55	4.55	5.88–5.99	6.06–6.12	8.82–9.11	9.10–9.12
Voltage at Pmax Vmp (V)	18.5	20.8	18.2–19.2	20.8–22.4	18.2–19.6	20.8–22.0
Current at Pmax Imp (A)	4.33	4.33	5.50–5.72	5.77–5.81	8.25–8.67	8.65–8.67
Module efficiency ηm (%)	18.7	18.9	18.1–19.9	19.6–21.2	18.8–21.4	20.3–21.4
Power tolerance	0 / +5 W					
Max. system voltage (V)	700	700	700	700	700	700
Max. series fuse (A)	10	10	10	10	10	15
Temperature characteristics						
Temp. coefficient of Pmax	−0.29 %/°C					
Temp. coefficient of Voc	−0.25 %/°C					
Temp. coefficient of Isc	+0.045 %/°C					
NOCT	45 ± 2 °C					
Operating temperature	−40 ~ +85 °C					
Mechanical characteristics						
Cell type	Monocrystalline half-cut					
Cell size	210mm · 32 cells	210mm · 36 cells	210mm · 32 cells	210mm · 36 cells	210mm · 32 cells	210mm · 36 cells
Dimensions (mm)	490×875×25mm	545×875×25mm	630×875×25mm	700×875×25mm	910×875×30mm	1015×875×30mm
Weight (kg)	4.8	5.0	5.3	5.5	8.5	9.0
Front glass	2.0–3.2 mm tempered, anti-reflective					
Frame	Anodised aluminium alloy					
Junction box	IP67, bypass diodes					
Cable / connector	50–90 cm (cust.) · MC4-compatible					
Mechanical load	5400 Pa front / 2400 Pa rear					

MECHANICAL & SYSTEM

Mechanical	Data
Cell	**Monocrystalline, half-cut**
Front glass	**2.0–3.2 mm tempered · anti-reflective**
Frame	**Anodised aluminium alloy**
Junction box / diodes	**IP67 · bypass diodes**
Connector	**MC4-compatible · 50–90 cm cable**
Product / power warranty	**12 years / 25 years (linear)**

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- Solar lighting

Power your off-grid life — at any size.

26 half-cut mono off-grid modules, 40–380 W, EL & flash-tested, from a Top-50 vertically-integrated maker.

Get a quote — info@cotechsolar.com

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eu@cotechsolar.com

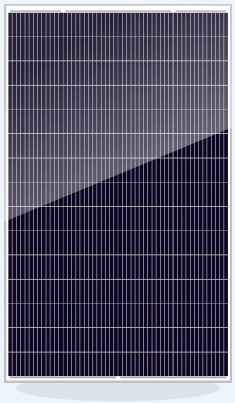
OFF-GRID MODULE

Off-Grid 210 mm · 200–380 W

Large 210 mm off-grid modules, 200–380 W — 12 V/24 V/48 V systems, pumps & hybrid plants

380 W UP TO POWER

22.0 % UP TO MODULE EFF.



- **210 mm half-cut** — up to 22% eff.
- **12/24/48 V** — 32–72-cell options
- **High yield** — low −0.29 %/°C
- **1000 V · IP67** — system-ready

Matched to off-grid batteries

- Voltage matched to charge 12 V / 24 V / 48 V banks directly via PWM or MPPT
- Ideal for RV, caravan, boat, cabin, solar pump & off-grid lighting
- Every wattage self-consistent — no over-rated specs

High-efficiency half-cut mono

- Monocrystalline half-cut cells — up to 22.0% module efficiency
- Low −0.29 %/°C temperature loss; strong morning / evening yield
- Better long-term reliability (low LID / LeTID)

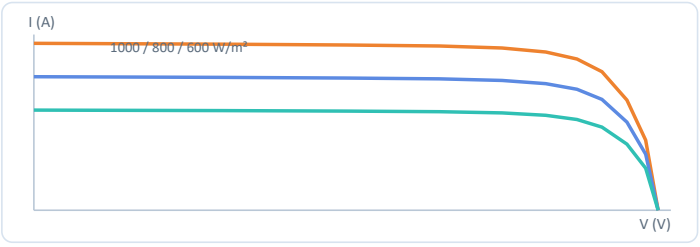
Rugged & weatherproof

- Anodised aluminium frame, anti-reflective tempered glass
- IP67 junction box, 5400 Pa front load, −40 ~ +85 °C
- EL & flash-tested, power-binned, 25-year linear power warranty

Key specifications

Power range	**200 – 380 W**
Cell	**Half-cut mono**
Voc class	**≈ 21 – 51 V**
Module efficiency	**up to 22.0%**
Max system voltage	**700 / 1000 V**
Operating temp	**−40 ~ +85 °C**
Connector	**MC4-compatible**
Warranty	**12 yr / 25 yr**

MODULE I–V CURVE



WHY COTECH

EL & flash tested
100% inspected, power-binned & traceable

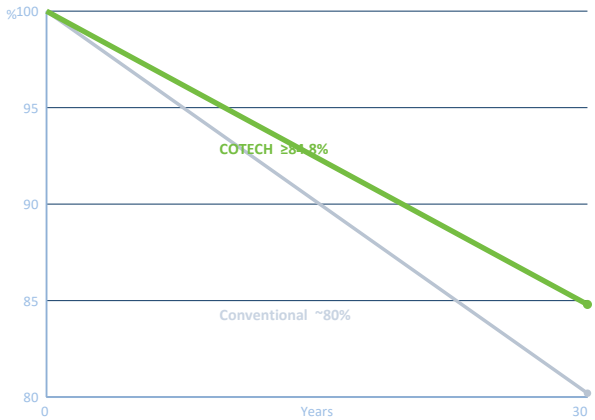
IDEAL FOR

- Off-grid home
- Solar pump
- Hybrid plant
- Telecom
- Agriculture
- C & I backup

APPLICATIONS

Off-grid home · Pump · C & I · Hybrid

PERFORMANCE WARRANTY



12-yr product | **25-yr power**

CERTIFICATION & QUALIFICATION

IEC 61215 · IEC 61730 · CE · RoHS · ISO 9001

STC: 1000 W/m², 25 °C, AM1.5. Electricals per COTECH source datasheets; every bin self-consistent. Specs subject to change.

Off-Grid 210 mm · 200–380 W — specifications

Rating	200–220 W	230–250 W	280–300 W	310–330 W	340–380 W
Electrical characteristics (STC)					
Module code	CS-200~220M12	CS-230~250M12	CS-280~300M12	CS-310~330M12	CS-340~380M12
Maximum power Pmax (W)	200–220	230–250	280–300	310–330	340–380
Open-circuit voltage Voc (V)	21.2–22.5	23.9–25.3	39.8–40.6	21.3–22.5	47.9–51.0
Short-circuit current Isc (A)	11.77–12.09	11.88–12.13	8.79–9.10	17.92–18.19	8.79–9.10
Voltage at Pmax Vmp (V)	18.2–19.2	20.5–21.7	34.1–34.7	18.3–19.2	41.0–44.0
Current at Pmax Imp (A)	11.00–11.45	11.23–11.55	8.22–8.65	16.94–17.33	8.30–8.67
Module efficiency ηm (%)	19.2–21.1	19.8–21.5	19.3–20.7	20.1–21.4	19.7–22.0
Power tolerance	0 / +5 W				
Max. system voltage (V)	1000	1000	1000	1000	1000
Max. series fuse (A)	15	20	15	30	15
Temperature characteristics					
Temp. coefficient of Pmax	−0.29 %/°C				
Temp. coefficient of Voc	−0.25 %/°C				
Temp. coefficient of Isc	+0.045 %/°C				
NOCT	45 ± 2 °C				
Operating temperature	−40 ~ +85 °C				
Mechanical characteristics					
Cell type	Monocrystalline half-cut				
Cell size	210mm · 32 cells	210mm · 36 cells	210mm · 60 cells	210mm · 64 cells	210mm · 72 cells
Dimensions (mm)	1190×875×30mm	1330×875×30mm	1655×875×30mm	1760×875×30mm	1975×875×30mm
Weight (kg)	9.9	10.6	13.0	13.5	14.6
Front glass	2.0–3.2 mm tempered, anti-reflective				
Frame	Anodised aluminium alloy				
Junction box	IP67, bypass diodes				
Cable / connector	50–90 cm (cust.) · MC4-compatible				
Mechanical load	5400 Pa front / 2400 Pa rear				

MECHANICAL & SYSTEM

Mechanical	Data
Cell	Monocrystalline, half-cut
Front glass	2.0–3.2 mm tempered · anti-reflective
Frame	Anodised aluminium alloy
Junction box / diodes	IP67 · bypass diodes
Connector	MC4-compatible · 50–90 cm cable
Product / power warranty	12 years / 25 years (linear)

COTECH SOLAR — vertically-integrated cell-to-module manufacturing

20 GW shipped

120+ countries

IEC · CE certified

IDEAL FOR

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- Solar pump
- Hybrid plant
- Telecom
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