

References in this publication to "Shell Solar" are to companies and other organisational entities within the Royal Dutch/Shell Group of Companies that are engaged in the photovoltaic solar energy business. Shell Solar was set up in 1999 and has its principal office in Amsterdam, The Netherlands.

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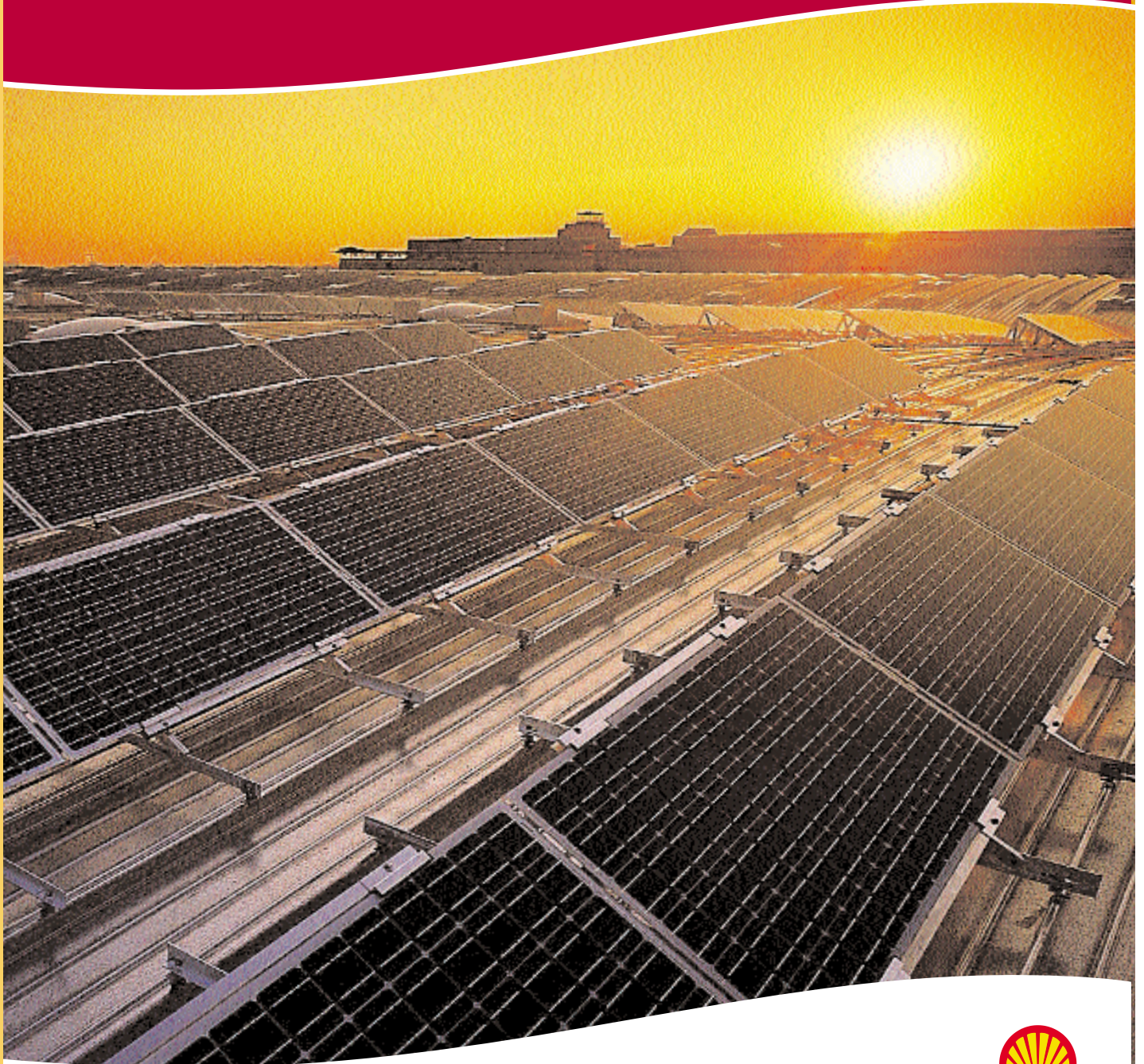
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Shell Solar

Photovoltaic Products 2002

Revised 2nd Edition





Introduction

For over 100 years, companies of the Royal Dutch/Shell Group have been involved in the worldwide production and development of energy sources, notably oil and gas. Today, Shell Companies remain committed to the safe and efficient deployment of global energy resources, providing reliable and cost-effective energy supplies.

We are at the dawn of a new era in the generation of sustainable energy supplies like wind or solar power. Properly used, these energy sources provide exciting opportunities for the future.

In 1997, Shell Renewables was established as the fifth core business within the Shell Group with a commitment to respond to today's and tomorrow's demands for energy. We aim to develop these sustainable resources efficiently, responsibly and profitably.

Today, Shell Solar is active across the entire value chain of solar photovoltaics, from wafers to end consumer. We have the geographic reach, economies of scale, advanced technology capabilities and range of applications – grid-connected, industrial and rural – to secure our position as a top-tier player in the global market for photovoltaic systems and energy supply.

Our vision in Shell Solar is to be a leader in creating a sustainable energy future. And we will do that by building a strong, financially successful, global business.

Shell has clearly demonstrated its firm commitment to turning that vision into reality by taking sole ownership of the solar PV joint venture formed with Siemens Solar in 2001.

Solar electricity

The earth receives as much energy from sunlight in 20 days as is believed to be stored in the Earth's entire reserves of coal, oil and natural gas.

Solar electricity generated using solar photovoltaics is being seen as an increasingly attractive option in both industrialised and developing nations. The world cannot function without power, so with falling costs and increasing practicality, solar photovoltaics can provide a viable solution.

Solar photovoltaic cells are the most modern of the three main technologies that harness solar power. They were originally developed for the US Space Programme and have since found many roles.

The costs of providing solar energy have fallen by nearly 50% over the last 10 years, thanks to rising output and advances in technology. That downward cost trend continues, making solar an increasingly attractive and viable choice for businesses and consumers.

Energy payback

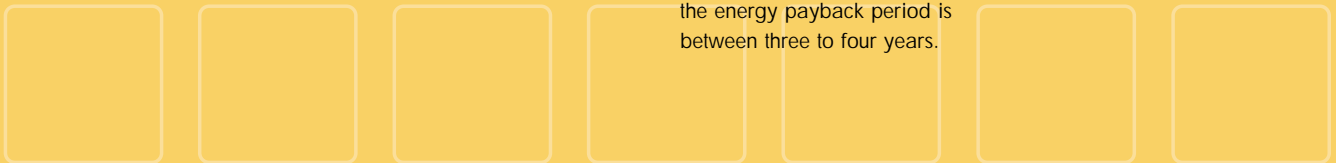
The costs involved when embarking on a solar photovoltaic system can appear higher than using fossil fuels. But when you set against them the minimal operating costs that follow the initial outlay, and the full cost to the environment in using fossil fuels, solar photovoltaic energy begins to add up to a very attractive proposition.

Once installed, solar photovoltaics produce electricity without the use of fossil fuels and produce no environmental pollution. Of course the actual manufacturing of photovoltaic modules requires energy and as a consequence pollutants and CO₂ are released. The length of time that a solar photovoltaic system must operate to pay back the energy used in manufacturing is called 'energy payback'.

The energy payback period depends on the type of solar photovoltaic technology adopted. For current silicon based technology, as manufactured by Shell Solar, the energy payback period is between three to four years.

Balanced against a typical system producing electricity for 20 years, there is clearly a significant benefit for the environment when deploying solar photovoltaic energy solutions.

The energy payback period is dominated by the energy used to purify and crystallise the base silicon used to manufacture photovoltaic modules. Shell Solar is active in developing thin film technologies that utilise significantly less material and promise the opportunity to reduce the energy payback period down to one year.



Shell Solar panels in action at a Shell service station in The Netherlands



Shell Solar panels at work in a rural environment



Markets

In industrialised countries, Shell Solar provides photovoltaic modules and systems for residential and commercial applications – from individual consumers to businesses.

Developed and developing nations alike can benefit from our stand-alone solar generators, supplying reliable, clean and cost-effective power to industry in remote locations. Meanwhile, the convenience of our solar home systems makes life easier for families and communities working to raise their standards of living, education and health.

Our activities for solar photovoltaics includes major technology and market development programmes. We are also involved in government initiatives around the world, helping to find systems of incentives and support that match each other's solar energy aspirations.

Manufacturing

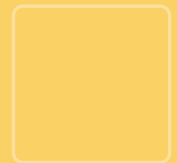
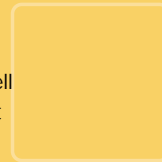
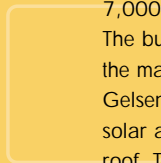
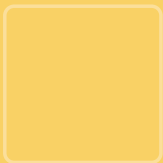
Shell Solar now has a global network of six manufacturing plants based in the US, Germany, The Netherlands and Portugal.

Camarillo in California is one of the world's largest mono-crystalline manufacturing plants with a capacity of 60MW per annum. The facility manufactures cells and modules using silicon crystals grown at our Vancouver site in Washington State. Camarillo focuses on the production of mono-crystalline cells and modules; and also produces our award winning CIS thin-film modules.

Our state-of-the-art multi-crystalline solar cell plant in Gelsenkirchen, Germany opened in November 1999. Gelsenkirchen is the world's most modern, and Europe's largest multi-crystalline solar cell plant. At full capacity the plant will produce 25MW a year, enough solar cells to power 7,000 European households. The building enclosing the manufacturing plant at Gelsenkirchen has a 1100m² solar array integrated into the roof. The system generates approximately 100,000kWh each year.

European module assembly plants are based in Munich, Germany; Helmond, The Netherlands; and Evora in Portugal. Each facility has a capacity of 5MW, 17MW and 15MW respectively.

All Shell Solar manufacturing and assembly sites have received ISO 9001 certification aligned with our goal to maintain world-class performance.



Munich Trade Fair rooftop array 1MWp



Shell Solar cell factory in Gelsenkirchen, Germany

Shell Solar product range

Shell Solar has a wide range of photovoltaic modules that can be used across a variety of applications- grid-connected, industrial and rural. Shell Solar specifies high quality standards for all manufacturing stages to produce photovoltaic modules with reliable performance over a long lifetime. All our modules are subject to the latest independent certification tests to ensure compliance with international standards.

Shell Solar offers three different module ranges that allow customers to optimise the performance of their photovoltaic installation whether the critical application criteria is power, size, strength, low light performance or aesthetics:

Mono-crystalline

Exceptional efficiency with proven reliability.

The mono-crystalline range of photovoltaic modules offers exceptional efficiency and proven reliability backed by a 25 year warranty. Our mono-crystalline products offer maximum power when space is a limitation in grid-connected and specialised industrial applications. The mono-crystalline range also offers the largest modules available, providing an effective solution for installations covering large areas. Shell Solar has 30 years experience in mono-crystalline technology backed by our patented PowerMax® efficiency-enhancing technology and a cumulative installed volume of nearly 300MW worldwide.

Multi-crystalline

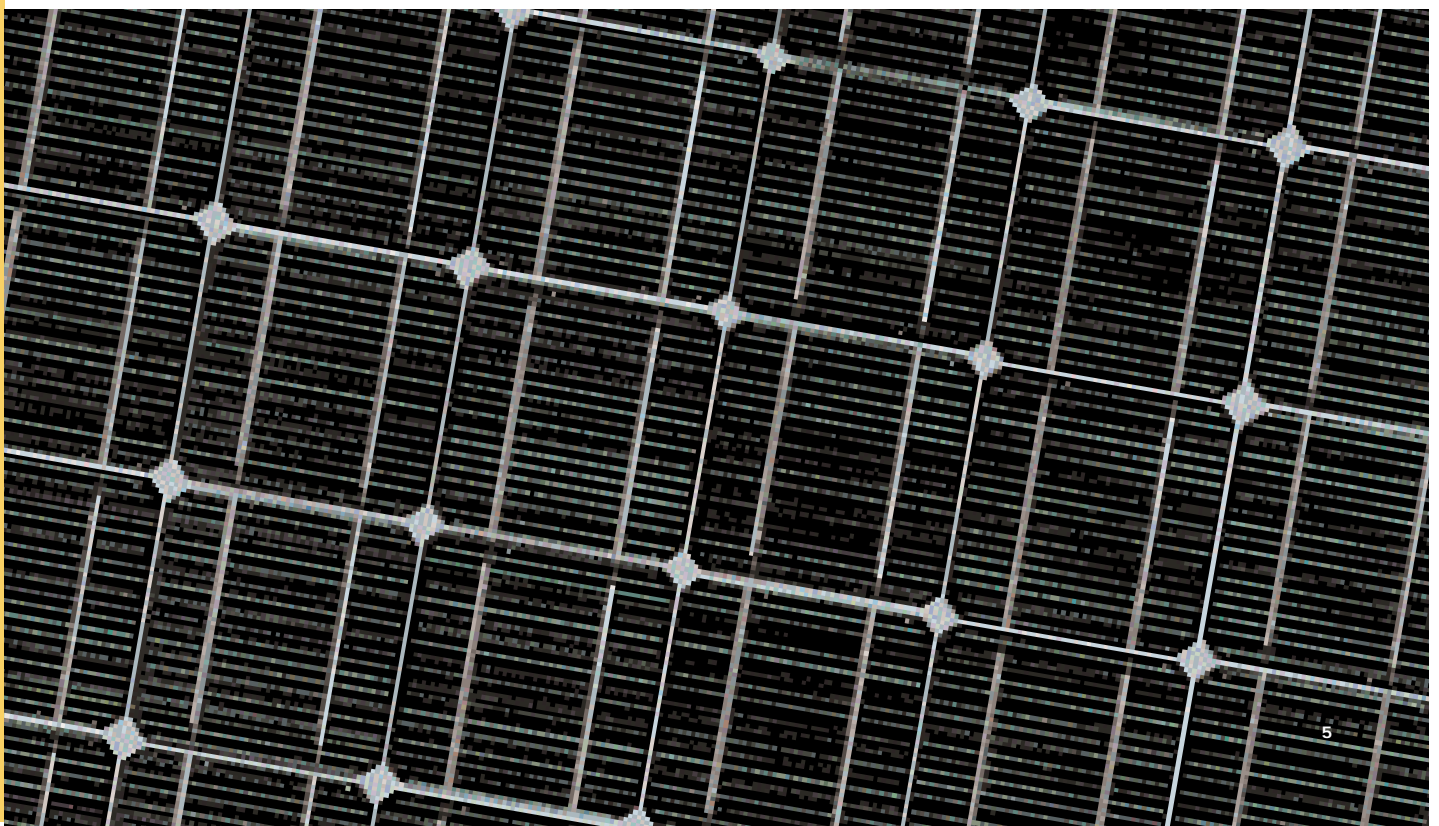
Excellent efficiency and reliability.

The multi-crystalline range of photovoltaic modules offers cost-effective power and reliability backed by a 20 year warranty. Our multi-crystalline products offer cost-effective power in grid-connected, industrial and rural applications. The range offers a high-strength frame that is particularly suitable for applications which expect heavy snow or high wind loads. Shell Solar has 20 years experience in multi-crystalline technology with a cumulative installed volume of nearly 50MW worldwide.

CIS thin-film

Highest power output in a thin-film.

The CIS range of award-winning photovoltaic modules delivers highest power and reliable performance in all operational conditions backed by a 10 year warranty. Our CIS thin-film products offer high power in industrial and rural applications where space is not a limitation. The range is particularly suitable for low light level environments and where uniform appearance and aesthetics is important. Shell Solar has over three years commercial manufacturing experience in CIS thin-film technology backed up by 10 years R&D experience.



Mono-crystalline product range

The mono-crystalline range of photovoltaic modules offers exceptional efficiency and proven reliability.

Features and benefits

- Our power modules (SM 110 and above) undergo strict selection criteria so that the tolerance on the peak power output is +/- 5% ensuring that you receive the power that we promise.
- PowerMax® mono-crystalline solar cells deliver maximum power output even under reduced light conditions, enabling more power where space is a limitation.
- The surface of the PowerMax® cell has a pyramidal textured surface to enable more light absorption and deliver exceptional efficiency.
- Highly transparent tempered glass allows more light to reach the cells and ensures high impact resistance and protection against hail, snow, ice and storms.
- Nearly 300MW of cumulative installed experience has been applied to the evolution of our mono-crystalline range to ensure that our products have a long and reliable service life backed by a 25 year warranty.

Module Type	Shell SM50-H	Shell SM55	Shell SM110-12	Shell SM110-24	Shell SP70	
Cell Characteristics						
Cell-strings	1	1	2	1	1	
Number of cells	33	36	72	72	36	
Cell type	Mono-crystalline	Mono-crystalline	Mono-crystalline	Mono-crystalline	Mono-crystalline	M
Cell dimensions (mm)	103 x 103	103 x 103	103 x 103	103 x 103	125 x 125	
Electrical Characteristics						
Peak power (Pmpp) (W)	50	55	110	110	70	
Peak power voltage (Vmpp) (V)	15.9	17.4	17.5	35.0	16.5	
Open circuit voltage (Voc) (V)	19.8	21.7	21.7	43.5	21.4	
Short circuit current (Isc) (A)	3.35	3.45	6.9	3.45	4.7	
Maximum system voltage (Vsyst. max) (V)	820	820	820	820	820	
Nominal voltage (V)	12	12	12	24	12	
Physical Characteristics						
Length (mm)	1220	1293	1316	1316	1200	
Width (mm)	329	329	660	660	527	
Depth including junction box (mm)	35	35	54	54	56	
Depth excluding junction box (mm)	35	35	40	40	34	
Weight (kg)	5.2	5.5	11.5	11.5	7.6	
Junction box	ProCharger™ - S	ProCharger™ - S	Spelsberg	Spelsberg	ProCharger™ - CR	Pr
Connection type	screws	screws	cage clamp	cage clamp	screws	
Mechanical mount	mounting holes	mounting holes	mounting holes	mounting holes	mounting holes	r
Mounting bolts included	no	no	no	no	no	
Certificates						
	IEC61215	IEC61215	IEC61215	IEC61215	IEC61215	
	UL-Listing 1703	UL-Listing 1703			UL-Listing 1703	L
	TUV Isolation Class II	TUV Isolation Class II	TUV Isolation Class II	TUV Isolation Class II	TUV Isolation Class II	TU
					FM	
Limited Peak Power Warranty						
(years)	25	25	25	25	25	
Typical Applications						
	Battery Charging	Rural/Industrial	Grid	Grid	Grid/Industrial	c

Power specifications are at Standard Test Conditions (STC): irradiance level 1000W/m², spectrum AM 1.5 and cell temperature 25°C. For more information please see the applicable Shell Solar Product Information Sheets.

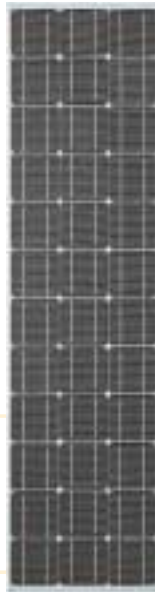
	Shell SP75	Shell SP140	Shell SP150
	1	1	1
	36	72	72
Material	Mono-crystalline	Mono-crystalline	Mono-crystalline
	125 x 125	125 x 125	125 x 125
	75	140	150
	17.0	33.0	34.0
	21.7	42.8	43.4
	4.8	4.7	4.8
	820	820	820
	12	24	24
	1200	1622	1622
	527	814	814
	56	54	54
	34	40	40
	7.6	17.2	17.2
CR	ProCharger™ - CR	Spelsberg	Spelsberg
	screws	cage clamp	cage clamp
Mounting	mounting holes	mounting holes	mounting holes
	no	no	no
	IEC61215	IEC61215	IEC61215
UL	UL-Listing 1703		
Isolation	TUV Isolation Class II	TUV Isolation Class II	TUV Isolation Class II
	FM		
	25	25	25
Application	Grid/Industrial	Grid	Grid



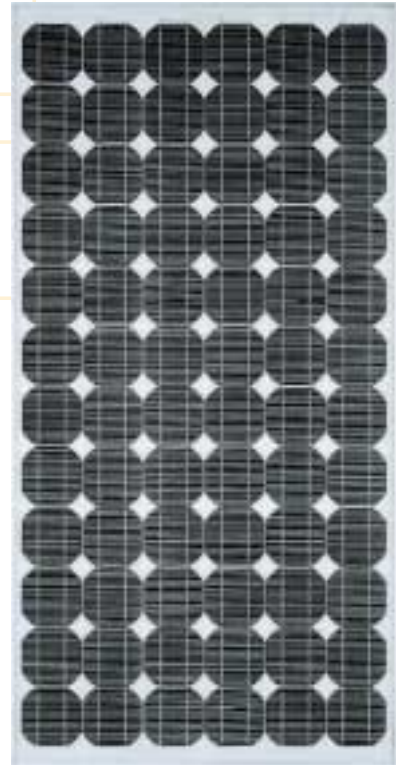
Shell SM50-H



Shell SM110-12, Shell SM110-24



Shell SM55



Shell SP140, Shell SP150



Shell SP70, Shell SP75

Multi-crystalline product range

The multi-crystalline range of photovoltaic modules offers cost effective power and reliability.

Features and benefits

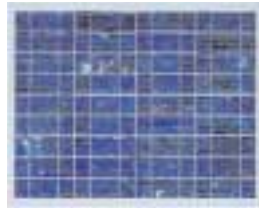
- Our modules (S65 and above) undergo strict selection criteria so that the tolerance on the peak power output is +/- 5% ensuring that you receive the power that we promise.
- Highly transparent tempered glass allows more light to reach the cells and ensures high impact resistance and protection against hail, snow, ice and storms.
- New upgraded frame that offers class-leading strength in applications where heavy snow or high winds may be experienced.
- Specially designed aluminium anodized frame with mounting slots and a close-to-square cross section to enable secure rear or front clamp mounting options.
- MultiContact® flying cables as standard on Shell S70, S75, S105 and S115 to reduce installation time in grid-connected applications.
- Nearly 50MW of cumulative installed experience has been applied to the evolution of our multi-crystalline range to ensure that our products have a long and reliable service life backed by a 20 year warranty.

Module Type		Shell S10	Shell S25	Shell S36	Shell S65	
Cell Characteristics						
Cell-strings		1	1	1	1	
Number of cells		36	36	36	36	
Cell type		Multi-crystalline	Multi-crystalline	Multi-crystalline	Multi-crystalline	M
Cell dimensions (mm)		62.5 x 31.3	125.0 x 41.5	125.0 x 62.5	125.0 x 125.0	1:
Electrical Characteristics						
Peak power (Pmpp) (W)		9	24	36	65	
Peak power voltage (Vmpp) (V)		16.5	16.5	16.5	16.5	
Open circuit voltage (Voc) (V)		21.4	21.4	21.4	20.9	
Short circuit current (Isc) (A)		0.57	1.50	2.30	4.3	
Maximum system voltage (Vsyst. max) (V)		100	100	100	600	
Nominal voltage (V)		12	12	12	12	
Physical Characteristics						
Length (mm)		430	550	635	1220	
Width (mm)		255	449	550	580	
Depth including junction box (mm)		45	45	45	54	
Depth excluding junction box (mm)		38	38	38	25	
Weight (kg)		1.5	3.4	4.4	10	
Junction box		IP65	IP65	IP65	Spelsberg	
Connection type		screws	screws	screws	cage clamp	M
Mechanical mount		mounting holes	mounting holes	mounting holes	slot	
Mounting bolts included		no	no	no	yes	
Certificates						
		IEC 61215	IEC 61215	IEC 61215	IEC 61215	
					TUV Isolation Class II	TUV
Limited Peak Power Warranty						
	(years)	10	10	10	20	
Typical Applications						
		Rural	Rural	Rural	Rural/Industrial	C

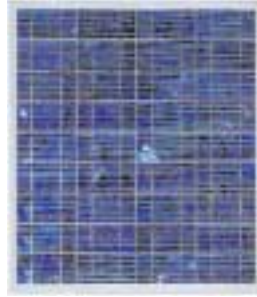
Power specifications are at Standard Test Conditions (STC): irradiance level 1000W/m², spectrum AM 1.5 and cell temperature 25°C. For more information please see the applicable Shell Solar Product Information Sheets.



Shell S10



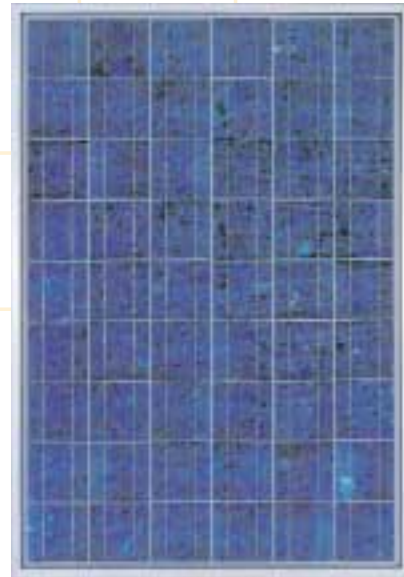
Shell S25



Shell S36



Shell S65, Shell S70,
Shell S75



Shell S105, Shell S115

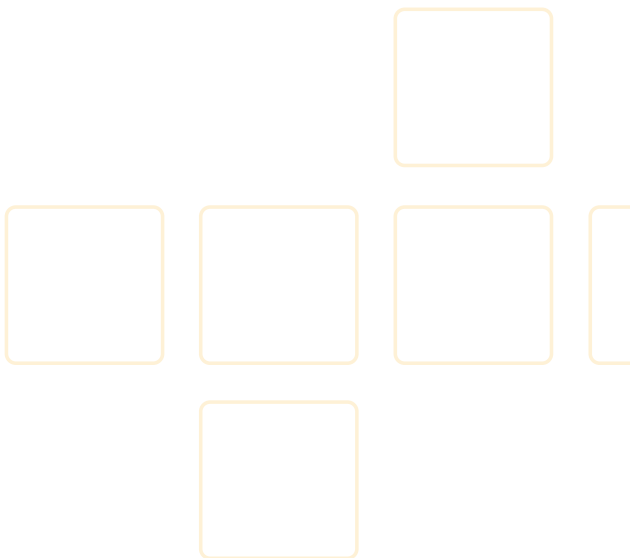
65	Shell S70	Shell S75	Shell S105	Shell S115
	1	1	1	1
	36	36	54	54
alline	Multi-crystalline	Multi-crystalline	Multi-crystalline	Multi-crystalline
25.0	125.0 x 125.0	125.0 x 125.0	125.0 x 125.0	125.0 x 125.0
	70	75	105	115
	17	17.6	25.5	26.8
	21.2	21.6	31.8	32.8
	4.5	4.7	4.5	4.7
	600	600	600	600
	12	12	18	18
	1220	1220	1220	1220
	580	580	850	850
	54	54	54	54
	25	25	25	25
	10	10	14	14
rg	Spelsberg	Spelsberg	Spelsberg	Spelsberg
mp	MC [®] - cables	MC [®] - cables	MC [®] - cables	MC [®] - cables
	slot	slot	slot	slot
	yes	yes	yes	yes
15	IEC 61215	IEC 61215	IEC 61215	IEC 61215
ClassII	TUV Isolation Class II	TUV Isolation Class II	TUV Isolation Class II	TUV Isolation Class II
	20	20	20	20
ustrial	Grid/Industrial	Grid/Industrial	Grid	Grid

CIS thin-film product range

The CIS thin-film range of photovoltaic modules offers highest power and reliable performance in all operational conditions.

Features and benefits

- Exceptional performance under low light conditions, shade and high temperature tolerance that offers reliable power in adverse or changeable environments.
- Class-leading efficiency and stable output power delivering reliable high performance for many years.
- Highly transparent tempered glass ensures high impact resistance and protection against hail, snow, ice and storms.
- Uniform appearance ideal for applications where aesthetics are an important factor.
- 10 years research and over three years of commercial manufacturing experience has been applied to the development of our CIS thin-film range to ensure that our products have a long and reliable service life backed by a 10 year warranty.



Module Type		Shell ST5	Shell ST10
Cell Characteristics			
Cell-strings		1	1
Number of cells		42	42
Cell type		CIS thin-film	CIS thin-film
Electrical Characteristics			
Peak power (P _{mpp})	(W)	5	10
Peak power voltage (V _{mpp})	(V)	15.6	15.6
Open circuit voltage (V _{oc})	(V)	22.9	22.9
Short circuit current (I _{sc})	(A)	0.39	0.77
Maximum system voltage (V _{syst. max})	(V)	25	25
Nominal voltage	(V)	12	12
Physical Characteristics			
Length	(mm)	328	359
Width	(mm)	206	328
Depth including junction box	(mm)	35	35
Depth excluding junction box	(mm)	35	35
Weight	(kg)	1.4	2.4
Junction box		n/a	n/a
Connection type		cable	cable
Mechanical mount		mounting holes	mounting holes
Mounting bolts included		no	no
Certificates			
		UL-Listing 1703	UL-Listing 1703
		FM	FM
Limited Peak Power Warranty			
	(years)	10	10
Typical Applications			
		Rural/Industrial	Rural/Industrial

Power specifications are at Standard Test Conditions (STC): irradiance level 1000W/m², spectrum AM 1.5 and cell temperature 25^oC.
For more information please see the applicable Shell Solar Product Information Sheets.



Shell ST5



Shell ST10



Shell ST20

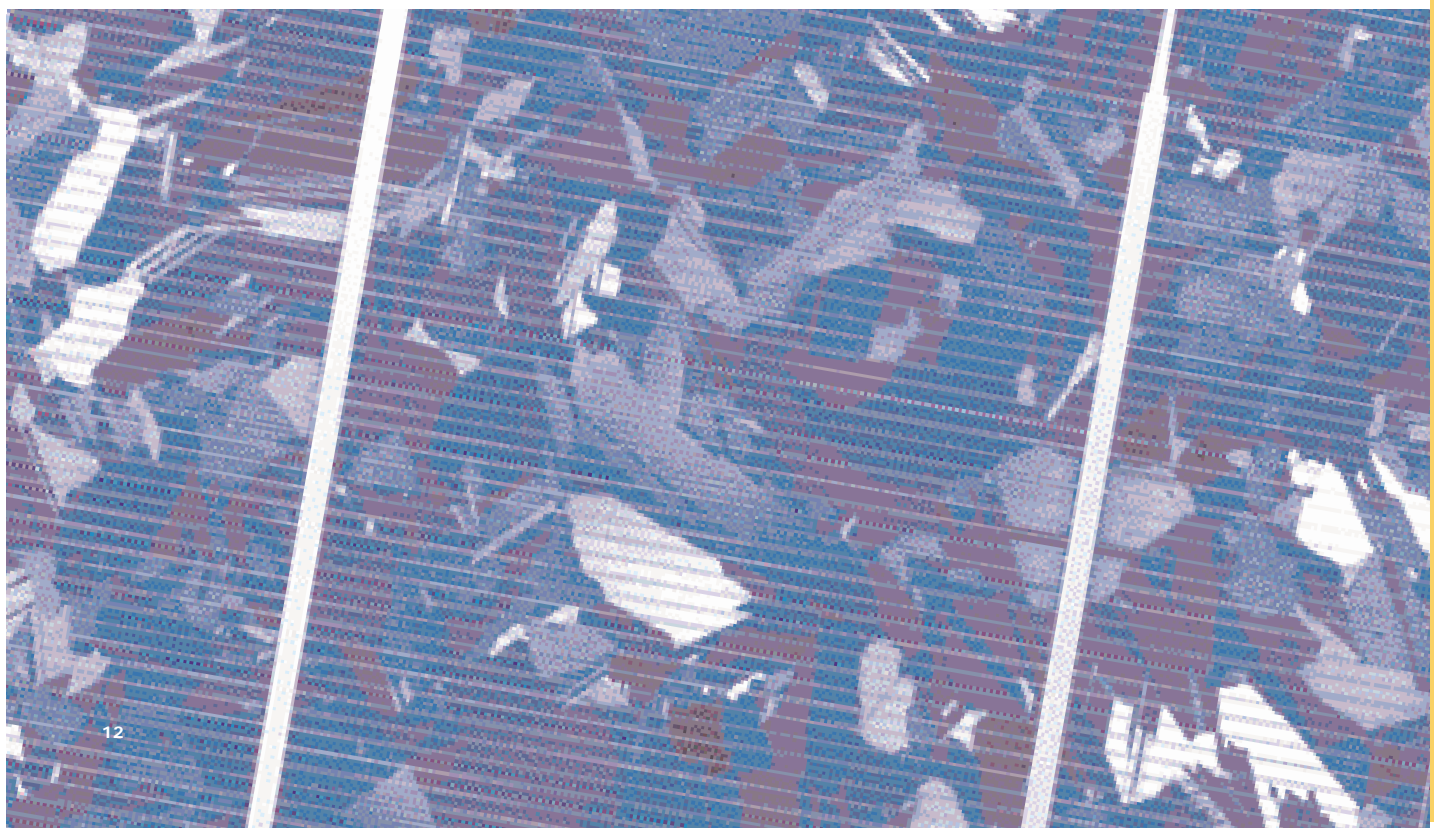


Shell ST36,
Shell ST40

	Shell ST20	Shell ST36	Shell ST40
	1	1	1
	42	42	42
	CIS thin-film	CIS thin-film	CIS thin-film
	20	36	40
	15.6	15.8	16.6
	22.9	22.9	23.3
	1.54	2.68	2.68
	25	600	600
	12	12	12
	748	1293	1293
	328	328	328
	35	35	35
	35	35	35
	4.1	7	7
	n/a	ProCharger™ - S	ProCharger™ - S
	cable	screws	screws
es	mounting holes	mounting holes	mounting holes
	no	no	no
33	UL-Listing 1703	UL-Listing 1703	UL-Listing 1703
	10	10	10
al	Rural/Industrial	Rural/Industrial	Grid

Shell Solar product range

Module	Cell type	Nominal voltage			Junction box					Certificates					Limited peak power warranty	Typical applications
		12V	18V	24V	Spelsberg	Spelsberg & MultiContact® cables	ProCharger™ -S	ProCharger™ -CR	Cable	IEC 61215	UL-Listing 1703	TÜV Isolation Class II	FM	CE		
Shell SM50-H	Mono-crystalline	•					•			•	•	•		•	25	Battery Charging
Shell SM55	Mono-crystalline	•					•			•	•	•		•	25	Rural/Industrial
Shell SM110-12	Mono-crystalline	•			•					•		•		•	25	Grid
Shell SM110-24	Mono-crystalline			•	•					•		•		•	25	Grid
Shell SP70	Mono-crystalline	•						•		•	•	•	•	•	25	Grid/Industrial
Shell SP75	Mono-crystalline	•						•		•	•	•	•	•	25	Grid/Industrial
Shell SP140	Mono-crystalline			•	•					•		•		•	25	Grid
Shell SP150	Mono-crystalline			•	•					•		•		•	25	Grid
Shell S10	Multi-crystalline	•								•				•	10	Rural
Shell S25	Multi-crystalline	•								•				•	10	Rural
Shell S36	Multi-crystalline	•								•				•	10	Rural
Shell S65	Multi-crystalline	•			•					•		•		•	20	Rural/Industrial
Shell S70	Multi-crystalline	•				•				•		•		•	20	Grid/Industrial
Shell S75	Multi-crystalline	•				•				•		•		•	20	Grid/Industrial
Shell S105	Multi-crystalline		•			•				•		•		•	20	Grid
Shell S115	Multi-crystalline		•			•				•		•		•	20	Grid
Shell ST5	CIS thin-film	•							•		•			•	10	Rural/Industrial
Shell ST10	CIS thin-film	•							•		•			•	10	Rural/Industrial
Shell ST20	CIS thin-film	•							•		•				10	Rural/Industrial
Shell ST36	CIS thin-film	•					•				•				10	Rural/Industrial
Shell ST40	CIS thin-film	•					•				•				10	Grid



Shell Solar credentials

Year	Country	Application
1979	Saudi Arabia	Solar-powered microwave link
1981	Pakistan	Village electrification project
1982	United States	Residential housing project 200kWp
	Papua New Guinea	20 solar-powered water delivery systems
1983	Zimbabwe	Solar generators for rural telephone exchange 320Wp
1984	Ghana	Two-way radio network and lighting 2.4kWp
	Indonesia	Village electrification – Solar Home Systems for 20,000 households
1985	The Netherlands	Solar generator system for pipeline cathodic protection Shell Pernis refinery
	United States	Grid-connected commercial power station 6.5MWp
1986	Saudi Arabia	Solar generator system for telex transceiver 3.6kWp
1987	Bangladesh	Solar generator systems for microwave repeaters
1988	Malaysia	Explosion-proof solar generator system for unmanned platform
	Tanzania	Electrification of mountain huts Mount Kilimanjaro
1989	China	Solar generator system for flood forecasting equipment
	Zambia	Electrification of 80 Rural Health Centres
1990	Colombia	Solar generator system for microwave repeater on Alto Magdalena pipeline
1991	The Netherlands	10 residential houses 25.6kWp
1992	Brunei	Explosion-proof solar generator system for instrumentation
1993	Zimbabwe	Electrification of 50 Rural Health Centres
	Zanzibar	Solar generator system for telecommunication project
1994	United Arab Emirates	Explosion-proof solar generator systems to power navigation lanterns
	Surinam	Village electrification program for 400 households and services
1995	The Netherlands	A27 sound barrier 55kWp
1996	The Netherlands	70 residential houses Nieuw Sloten, Amsterdam 250kWp
	Cyprus	Solar generator systems for telecommunication
	Scotland	Solar generator system for navigation buoy
1997	Germany	Munich trade fair rooftop array 1MWp
	Peru	Solar generator systems for streetlighting
	Thailand	Solar generator systems for navigation buoys
	Thailand	Remote satellite receiver stations 150kWp
	Bolivia	Solar Home Systems for 5,500 households and services
1998	South Africa	Village electrification program for 6,000 households
	The Netherlands	500 residential houses Nieuwland, Amersfoort 1000kWp
	United Arab Emirates	Solar generator systems for aeronautical obstacle lights
1999	France	Solar generator system for domestic application
	The Netherlands	Sunpower program 4000kWp
2000	The Netherlands	Greenpeace Solaris program 1000kWp
	The Netherlands	Roof of records department Rotterdam 185kWp
	India	Explosion-proof solar generator system
	China	Solar systems for village communications 108kWp
	Malaysia	Solar UPS system in Technology Park 362kWp
2001	The Netherlands	Sound barrier Helmond 105kWp
	Sri Lanka	Solar Home Systems 7,000 households
	Philippines	Electrification 600 households
	China	Silk Road Project electrification 78,000 households over five years
2002	The Netherlands	Floriade international horticultural exhibition 2.3MWp

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