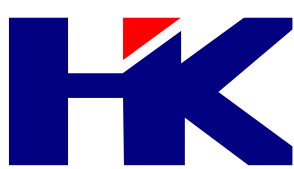


Wiring Harness Catalog

For First Solar Modules



DC Wiring Harnesses / First Solar Series 4

HEWTECH/HIKAM DC Wiring Harness is an optimized solution to combined strings of First Solar Series 4 modules mounted on Fixed Tilt or Tracker structures

Built for First Solar Series 4 Modules

- Designs for 1500V and 1000V system architecture
- Designs for all structures
- Designs with many wire color options

Reduces BOS Cost

- Reduces BOS cost by aggregating strings in parallel
- Reduces electrical field labor with pre-manufactured harnesses
- Product Roadmap includes innovations to improve cost

Certifications

- UL 9703 Listed Product
- EN50618 compliant
- UL4703 PV Wire, UL2579 Fuses, UL6703 Connectors

100% electrically 5 point tested

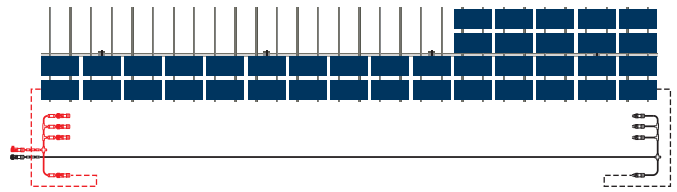
- Ensuring harnesses are functional and defect free
- Visual Inspection, Continuity Test, Resistance check, weight check, wet-leakage testing (<1 μA)

5-year standard workmanship warranty

- Accelerated environmental chamber testing to simulate 25 year life

Global Manufacturing

- Mexicali, Mexico; Guasave, Mexico; Shenzhen, China



Typical 1 x 4 harness pair for First Solar Series 6 modules 1500V example

- 1 x 4 harness combines four Series 6 strings into one positive and one negative lead

- Up to 7 strings (18 kW per harness) available

- Harnesses are available in a variety of designs, fitting the needs of your PV plant with First Solar modules

Wiring Harness Product Information^{1,2}

Harness Dimension (module x string)	Module Type	kW / Homerun	String Count	In-line fuse rating	Isc per harness	Connector Type
3 x 1	Series 4	5.4 kW	3	4A	8.7 A	MC4
4 x 1	Series 4	7.2 kW	4	4A	11.6 A	MC4
5 x 1	Series 4	9.0 kW	5	4A	14.5 A	MC4
3 x 2	Series 4	10.8 kW	6	4A	17.3 A	MC4
6 x 1	Series 4	10.8 kW	6	4A	17.3 A	MC4
7 x 1	Series 4	12.6 kW	7	4A	20.2 A	MC4
4 x 2	Series 4	14.4 kW	8	4A	23.1 A	MC4
3 x 3	Series 4	16.2 kW	9	4A	26.0 A	MC4
5 x 2	Series 4	18.0 kW	10	4A	28.9 A	MC4

First Solar Ecosystem Selection Guide³

Harness Type	ATI	NexTracker	Exosun	GameChange	Ideematec	Soltec
3 x 1			✓			
4 x 1	✓	✓				
5 x 1				✓		
6 x 1				✓		✓
7 x 1					✓	
3 x 2			✓			
4 x 2	✓	✓				
5 x 2				✓		
3 x 3						



1. kW / Homerun assumes 120W Series 4 Module and 15 modules per string
 2. Isc per harness based on NEC current factor of 1.5625. National and local adjustments will vary
 3. Structural designs differ based on project specifics. Consult your Hewtech / Hikam representative before purchasing

HEWTECH/HIKAM DC Wiring Harness is an optimized solution to combine strings of First Solar Series 6 modules mounted on Fixed Tilt or Tracker structures

Built for First Solar Series 6 Modules

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- Designs for all structures
- Many wire color options

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100% electrically 5 point tested

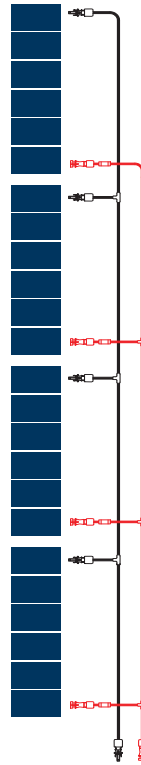
- Ensuring harnesses are functional and defect free
- Visual Inspection, Continuity Test, Resistance check, weight check, wet-leakage testing (<1 µA)

5-year standard workmanship warranty

- Accelerated environmental chamber testing to simulate 25 year life

Global Manufacturing

- Mexicali, Mexico; Guasave, Mexico; Shenzhen, China



Typical 1 x 4 harness pair for First Solar Series 6 modules 1500V example

- 1 x 4 harness combines four Series 6 strings into one positive and one negative lead
- Up to 7 strings (18 kW per harness) available
- Harnesses are available in a variety of designs, fitting the needs of your PV plant with First Solar modules

Wiring Harness Product Information^{1,2,3}

Harness Dimension (module x string)	Module Type	kW / Homerun	String Count	In-line fuse rating	Isc per harness	Connector Type
1 x 4	Series 6	10.3 kW	4	6A	16.6 A	MC4 or MC4 EVO2
1 x 5	Series 6	12.9 kW	5	6A	20.7 A	MC4 or MC4 EVO2
1 x 6	Series 6	15.5 kW	6	6A	24.8 A	MC4 or MC4 EVO2
2 x 3	Series 6	15.5 kW	6	6A	24.8 A	MC4 or MC4 EVO2
3 x 2	Series 6	15.5 kW	6	6A	24.8 A	MC4 or MC4 EVO2
1 x 7	Series 6	18.1 kW	7	6A	29.0 A	MC4 or MC4 EVO2
1 x 8*	Series 6	20.6 kW	8	6A	33.1 A	MC4 or MC4 EVO2
2 x 4*	Series 6	20.6 kW	8	6A	33.1 A	MC4 or MC4 EVO2
4 x 2*	Series 6	20.6 kW	8	6A	33.1 A	MC4 or MC4 EVO2

First Solar Ecosystem Selection Guide⁴

Harness Type	ATI	NexTracker	Exosun	GameChange	Ideematec
1 x 4					1
1 x 5			1	1	
1 x 6	2	1		1	
1 x 7		1			



1. kW / Homerun assumes 430W Series 6 Module and 6 modules per string

2. Isc per harness based on NEC current factor of 1.5625. National and local adjustments will vary

3. Isc per harness values over 30A require special consideration. Consult your Hewtech / Hikam representative before purchasing.

4. Structural designs differ based on project specifics. Consult your Hewtech / Hikam representative before purchasing.

Accessories / Contact Information

Accessories

Description	Attribute
String Jumper	#10 AWG
String Jumper	#14 AWG
In-line fuse replacement kit	4A (for Series 4)
In-line fuse replacement kit	6A (for Series 6)

Contact Us

Regional Coverage	Company Presence	Key Contact Information	Phone Contact
North America	Headquarters Business Development Manufacturing	Mr. Brian Moore	+1 (619) 947-9294
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Middle East	Business Development	Mr. Brian Moore	+1 (619) 947-9294
Asia Pacific	Business Development Manufacturing	Mr. CM Ho	+852 2425-1225
Japan	Headquarters Business Development	Mr. Hirokuni Fukuda	+81 03-5493-1711



About Us

At HIKAM AMERICA, Inc., we have three decades of experience as a turnkey manufacturer of wiring harnesses, and 6 years of specialized experience with Solar Harness Assemblies. Our ISO-9001 & UL9703 certified manufacturing facilities are based in Mexicali and Guasave, Mexico, with our sister factory (Hewtech Shenzhen) in Shenzhen, China. HIKAM's strength in offering the highest quality products, competitive prices, and excellent customer service is what sets us apart from our competitors.

The HIKAM Quality Assurance Program strives for ZERO defects & a Commitment to Excellence