บริษัท เอสวาย คอนเนค(ประเทศไทย)จำกัด
7/17 ถนนสามัคคีชัย ตำบลในเมือง อำเภอเมือง จังหวัดเพชรบูรณ์ 67000
ผู้เสียภาษีอากรเลขที่ 0675564001294 โทร. 084-0490364 , 056-027011
สาขา สำนักงานใหญ่

ใบเสนอราคา (Quotation)

นามลูกค้า/Customer Name :
ที่อยู่/Address :

โทรศัพท์/Tel & Fax :
TAX ID :

เลขที่เอกสาร/No :
วันที่/Date :

E-mail : sy.solare@gmail.com

Item	Description	Qty.	Unit	Unit Price (Baht)	Price Total
A	**งานติดตั้งระบบ Solar Cell On Grid 3kWp,1Phase (HUAWEI)**	1	Lot	125,000.00	125,000.00
1	**Grid Tie Inverter And Accessories**				
	- Huawei Inverter 3KW 1Phase SUN2000-3KTL-L1	1	Set		
	- Huawei Smart Power Censor 1Phase DDSU666-H W/CT	1	Set		
	- Huawei Smart Dongle WLAN FE SDongleA-05	1	Set		
2	**DC-AC Panel Board**				
	- Combiner Box Grid Tie 3kw 1Phase 1String	1	Set		
3	**Solar panel**				
	Solar Cell 550W Mono Half LONGI	6	Ea		
4	**Solar Panel Accessories**				
	- Rail 4200mm	3	Ea		
	- Mid Clamp Kit 30-35mm.	12	Ea		
	- End Clamp Kit 35mm.	8	Ea		
	- L-Feet	13	Ea		
	- Rail Splice Kit	3	Ea		
	- Grounding Lug	4	Ea		
	- Clip Cable	6	Ea		
	- Grounding Clip	12	Ea		
5	**Conduit And Cable**				
	- PVC Conduit Dia.1/2"	20	m.		
	- PVC Conduit Dia.3/4"	20	m.		
	- Wireway 100x100mm.	5	m.		
	PV Cable				
	- PV-4sq.mm.RED	50	m.		
	- PV-4sq.mm.BLACK	50	m.		
	IEC-01 Cable				
	- IEC-01 Cable 4Sq.mm.	10	m.		
	- IEC-01 Cable 6Sq.mm.	20	m.		
6	**Grounding System**				
	- Ground Rod 5/8x10ft	1	Set		
	- IEC-01 Cable 6Sq.mm. Green	20	m.		
	เงื่อนไขการรับประกัน :				
	1.ราคาที่เสนอรวมงานทำแบบเพื่อขออนุญาต อ.1				
	2.ราคาที่เสนอรวมงานทำแบบและดำเนินการขออนุญาต กกพ.และขนานไฟฟ้ากับการไฟฟ้าส่วนภูมิภาค				
	3.Inverter รับประกัน 10 ปี				
	4.แผง Solar Cell รับประกัน 12 ปี(ประสิทธิภาพการผลิตพลังงานไฟฟ้าได้ไม่น้อยกว่า80%,25ปี ตามมาตรฐานผลิตภัณฑ์)				
	5.รับประกันงานติดตั้งและอุปกรณ์ไฟฟ้าต่างๆ 3 ปี				
	6.Service ล้างแผงปีละ 1 ครั้งเป็นเวลา 3 ปี				
หนึ่งแสนสองหมื่นห้าพันบาทถ้วน			Total Amount		125,000.00
Remark : งวดที่1เมื่อตกลงว่าจ้าง ชำระ 10%			Vat 7%		
งวดที่2 เมื่อนำของเข้าหน้างาน ชำระ 30%			Special Discount		
งวดที่3 หลังจากติดตั้งแล้วเสร็จ พร้อมทดสอบระบบ ชำระ 60%			Grand Total		125,000.00

*หลังจากติดตั้งแล้วเสร็จ ดำเนินการขออนุญาตการไฟฟ้าและกกพ 30-45วันทำการ
หมายเลขบัญชี 109-1-15071-5 ธนาคารกสิกรไทย ชื่อบัญชี บริษัท เอสวายคอนเนค(ประเทศไทย)จำกัด

ผู้อนุมัติซื้อ

ผู้มีอำนาจลงนาม

SY connext
เอสวาย คอนเนค (ประเทศไทย) จำกัด

REQUEST FOR APPROVAL (R.F.A.)

PROJECT : งานติดตั้ง Solar Cell PV Rooftop 3KwP, 1Phase
OWNER :
CONTRACTOR :
DATE :

Ref. No. : SY/...../RFA/MAT/EE/...../65
No. of Page : (Including this page)

Function : ☐ Main ■ Elec. ☐ San ☐ Air ☐ Lift ☐ Curtain Wall

(1) Contractor's Request Title:ขออนุมัติใช้วัสดุและอุปกรณ์งานติดตั้ง Solar Cell PV Rooftop 3KwP, 1Phase

1	Solar PV Inverter On grid Tie	Brand: Hauwei	Model: SUN2000-3KTL-L1
2	Smart Power Sensor For Zero Export	Brand: Hauwei	Model: DTSU-666-H 1P2W
3	Smart Dongle-WLAN-FE	Brand: Hauwei	Model: SDongleA-05
4	Solar Panel	Brand: LONGI	Model: LR4-72HPH-450M/LR5-72HPH-540M
5	PV Cable	Brand: Link	Model: CB-1040X
6	IEC-01 Cable	Brand: BCC	Model: : 450/750V 90°C 60227 IEC-01
7	DC-AC Combiner Box	Brand: Local	

Subject		Attached		Reference :
☐ Material	Set	☐ Sample	Set	☐ Drawing No.:
☐ Shop drawing	Set	■ Catalog	7 Set	☐ Specification Ref. No.:
☐	Set	☐ Shop drawing	Set	☐ Others:

Remark :

(2) **Attn: Best Medical (Phrae) Limited Parrner**
■ For Approval ☐ See note ☐ cknowledge

Note:

From: SY Electric System Limited Partnership

Signature :
(Mr.Seri Takerngphon)
Position : Elctrical Engineer
Date : Time :

(3) **Attn: Designer/Client**
☐ For Approval ☐ See note ☐ cknowledge

Note:

From:

Signature :
( )
Position :
Date : Time :

(4) **Attn:**
Designer's Result/Comment :
☐ Approved ☐ Resubmit
☐ Approved as note ☐ Not Approved
Note:

From: Designer/Client

Signature :
( )
Position :
Date : Time :

(5) **Attn: Contractor**
☐ Approved ☐ Resubmit
☐ Approved as note ☐ Not Approved
Note:

From:

Signature :
( )
Position :
Date : Time :

Solar PV Inverter On grid Tie 3kW, 1Phase

Brand : Huawei

Model : SUN2000-3KTL-L1

Smart Energy Controller

Active Safety

AI Powered
Active Arcing Protection

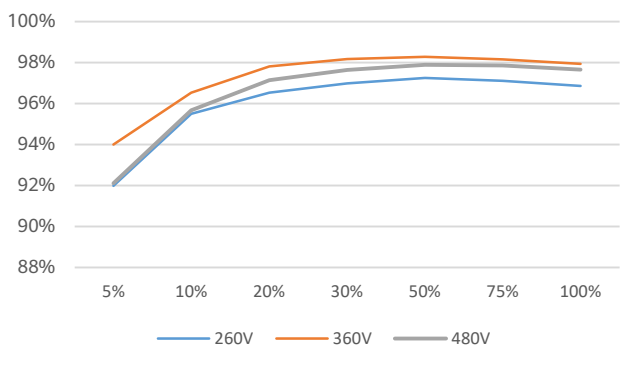
Higher Yields

Up to 30% More
Energy with Optimizer

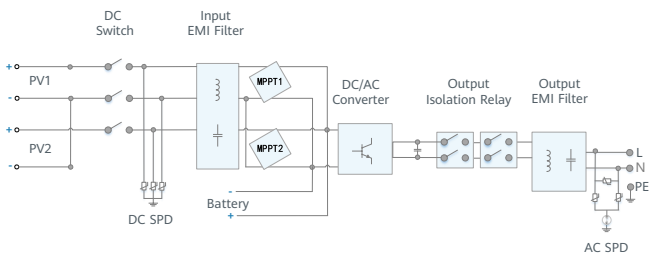
2x POWER Battery Ready

5KW AC Output plus
5KW Battery Charge

Efficiency Curve



Circuit Diagram



SUN2000-2/3/4/5KTL-L1

Technical Specification

Technical Specification	SUN2000 -2KTL-L1	SUN2000 -3KTL-L1	SUN2000 -4KTL-L1	SUN2000 -5KTL-L1
Efficiency				
Max. efficiency	98.2 %	98.3 %	98.4 %	98.4 %
European weighted efficiency	96.7 %	97.3 %	97.5 %	97.8 %
Input (PV)				
Recommended max. PV power [2]	3,000 Wp	4,500 Wp	6,000 Wp	7,500 Wp
Max. input voltage	600 V [3]			
Start-up voltage	100 V			
MPPT operating voltage range	90 V – 560 V [3]			
Rated input voltage	360 V			
Max. input current per MPPT	12.5 A			
Max. short-circuit current	18 A			
Number of MPP trackers	2			
Max. number of inputs	2			
Input (DC Battery)				
Compatible Battery	LG Chem RESU 7H_R / 10H_R			
Operating voltage range	350 ~ 450 Vdc			
Max operating current	10 A @7H_R / 15 A @10H_R			
Max charge power	3,500 W @7H_R / 5,000 W @10H_R			
Max discharge Power @7H_R	2,200 W	3,300 W	3,500 W	3,500 W
Max discharge Power @10H_R	2,200 W	3,300 W	4,400 W	5,000 W
Compatible Battery	HUAWEI Smart ESS Battery 5kWh – 30kWh [1]			
Operating voltage range	350 ~ 560 Vdc			
Max operating current	15 A			
Max charge Power	5,000 W [4]			
Max discharge Power	2,200 W	3,300 W	4,400 W	5,000 W
Output				
Grid connection	Single phase			
Rated output power	2,000 W	3,000 W	4,000 W	5,000 W [5]
Max. apparent power	2,200 VA	3,300 VA	4,400 VA	5,500 VA [7]
Rated output voltage	220 Vac / 230 Vac / 240 Vac			
Rated AC grid frequency	50 Hz / 60 Hz			
Max. output current	10 A	15 A	20 A	25 A [8]
Adjustable power factor	0.8 leading ... 0.8 lagging			
Max. total harmonic distortion	≤ 3 %			
Backup power output	Yes (via Backup Box-B0 [1])			
Protection & Feature				
Anti-Islanding protection	Yes			
DC reverse polarity protection	Yes			
Insulation monitoring	Yes			
DC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11			
AC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11			
Residual current monitoring	Yes			
AC overcurrent protection	Yes			
AC short-circuit protection	Yes			
AC overvoltage protection	Yes			
Over-heat protection	Yes			
Arc fault protection	Yes			
Battery reverse charging from grid	Yes			
General Data				
Operating temperature range	-25 ~ +60 °C (Derating above 45°C @ Rated output power)			
Relative operating humidity	0 %RH ~ 100 %RH			
Operating altitude	0 ~ 4,000 m (Derating above 2,000 m)			
Cooling	Natural convection			
Display	LED indicators; integrated WLAN + FusionSolar APP			
Communication	RS485, WLAN via inverter built-in WLAN module Ethernet via Smart Dongle-WLAN-FE (Optional); 4G / 3G / 2G via Smart Dongle-4G (Optional)			
Weight (incl. mounting bracket)	12.0 kg (26.5 lb)			
Dimension (incl. mounting bracket)	365mm * 365mm * 156 mm (14.4 x 14.4 x 6.1 inch)			
Degree of protection	IP65			
Optimizer Compatibility				
DC MBUS compatible optimizer	SUN2000-450W-P			
Standard Compliance (more available upon request)				
Safety	EN/IEC 62109-1, EN/IEC 62109-2			
Grid connection standards	G98, G99, EN 50549-1, CEI 0-21, VDE-AR-N-4105, AS 4777, C10/11, ABNT, UTE C15-712, RD 1699, TOR D4, IEC61727, IEC62116			

*1 Available in 2021 Q1.
*2 Inverter max input PV power is 10,000 Wp when long strings are designed and fully connected with SUN2000-450W-P power optimizers.
*3 The maximum input voltage and operating voltage upper limit will be reduced to 495 V when inverter connects and works with LG battery.
*4 2,500 W @ 5kWh HUAWEI ESS battery
*5 AS4777.2: 4,991W. *6. VDE-AR-N 4105: 4,600VA / AS4777.2: 4,999VA. *7. AS4777.2: 4,999VA / C10/11:5,000VA *8. AS4777.2: 21.7A.

Smart Power Sensor For Zero Export

Brand : Huawei

Model : DTSU-666-H 1P2W

Smart Power Sensor

Accurate
Class 1 measurement accuracy

Simple & Easy
LCD display, easy to set and check

Energy Efficient
Overall power consumption ≤ 1 W

Technical Specification	DDSU666-H	DTSU666-H	DTSU666-H 250A/50mA
General Data			
Dimension (H x W x D)	100 x 36 x 65.5 mm (3.9 x 1.4 x 2.6 inch)	100 x 72 x 65.5 mm (3.9 x 2.8 x 2.6 inch)	100 x 72 x 65.5 mm (3.9 x 2.8 x 2.6 inch)
Mounting type	DIN35 Rail		
Weight (including cables)	1.2 kg (2.6 lb)	1.5 kg (3.3 lb)	1.5 kg (3.3 lb)
Power Supply			
Power grid type	1P2W	3P4W	3P4W/3P3W
Input voltage (phase voltage)	176 Vac ~ 288 Vac		
Power consumption	≤ 0.8 W	≤ 1 W	≤ 1 W
Measurement Range			
Line voltage	/	304 Vac ~ 499 Vac	304 Vac ~ 499 Vac
Phase voltage	176 Vac ~ 288 Vac		
Current	0 ~ 100 A	0 ~ 100 A	0 ~ 250 A
Measurement Accuracy			
Voltage	±0.5 %		
Current / Power / Energy	±1 %		
Frequency	±0.01 Hz		
Communication			
Interface	RS485		
Baud rate	9,600 bps		
Communication protocol	Modbus-RTU		
Environment			
Operating temperature range	-25 ℃ ~ 60 ℃		
Storage temperature range	-40 ℃ ~ 70 ℃		
Operating humidity	5 %RH ~ 95 %RH (non-condensing)		
Others			
Accessories	RS485 Cable (10 m / 33 ft.) 1 CT 100A / 40mA (5 m / 16.4 ft.) 	3 CT 100A / 40mA (5m / 16.4 ft.) 	3 CT 250A / 50mA (5m / 16.4 ft.) 

Smart Dongle-WLAN-FE

Brand : Huawei

Model : SDongleA-05

Smart Dongle-WLAN-FE

Smart
WLAN & Fast Ethernet (FE) communication
Support 3rd-party monitoring system [1]

Simple
Plug & Play
Support max. 10 devices

Reliable
IP65
Support auto reconnection

Technical Specification	SDongleA-05
General Data	
Max. Devices Supported	10
Max. Inverters Supported	10
Connection interface	USB
Ethernet Interface	10/100M Ethernet
Installation	Plug-and-play
Indicator	LED Indicator
Dimensions (W * H * D)	146 x 48 x 33 mm (5.1 x 1.9 x 1.3 inch)
Weight	90 g (0.2 lb.)
Degree of protection	IP65
Power consumption (typical)	2.5 W
Operation Mode	STA
Encryption Algorithm	Encryption Mechanism：WPA/WPA2 Encryption：TKIP/CCMP/AES
Wireless Parameter	
Supported standards & frequencies	802.11b/g/n（2.412G—2.484G）
Environment	
Operating temperature range	-30 ℃ to +65 ℃ (-22 ℉ to 149 ℉)
Relative humidity range	5 - 95% RH
Storage temperature range	-40℃ to +70℃ (-40 ℉ to 158 ℉)
Max. operating altitude	4,000 m (13,123 ft.)
Standard Compliance (more available upon request)	
Certificate	SRRC, CE, RCM
Inverter Compatibility	
Supported Master Inverter Model	SUN2000-2/3/4/4.6/5/6KTL-L1 SUN2000-5/6KTL-M1 SUN2000-8/10/12/15/17/20KTL-M2 SUN2000-29.9/36/40KTL-M3 SUN2000-5/6/8/10/12/15/17/20KTL-M0

1: 3rd-party management system shall match the communication protocol with Huawei Smart Dongle.

Solar Panel

Brand : LONGI

Model : LR4-72HPH-450M/LR5-72HPH-540M

Hi-MO 4m

LR4-72HPH
430~460M

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
  - M6 Gallium-doped Wafer
  - 9-busbar Half-cut Cell
- Excellent outdoor power generation performance
- High module quality ensures long-term reliability

12 12-year Warranty for Materials and Processing

25 25-year Warranty for Extra Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO 9001:2008: ISO Quality Management System

ISO 14001: 2004: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval

OHSAS 18001: 2007 Occupational Health and Safety

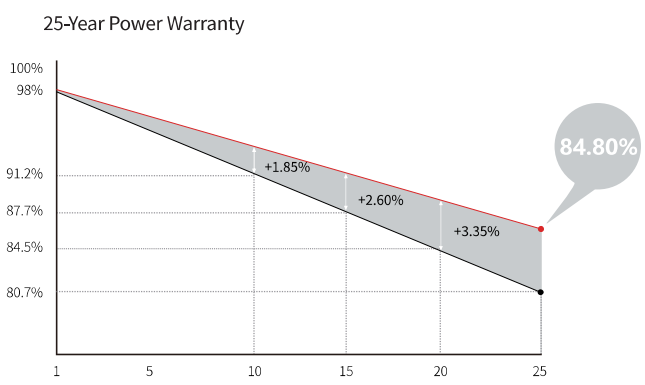
LONGi

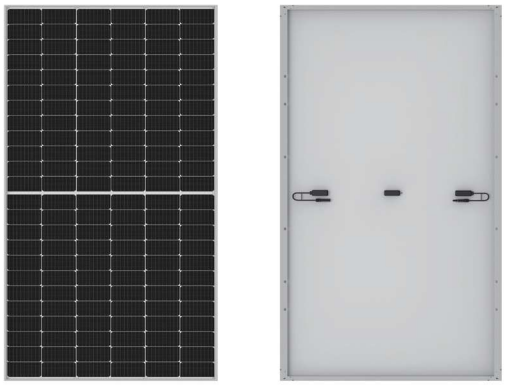
Hi-MO 4m

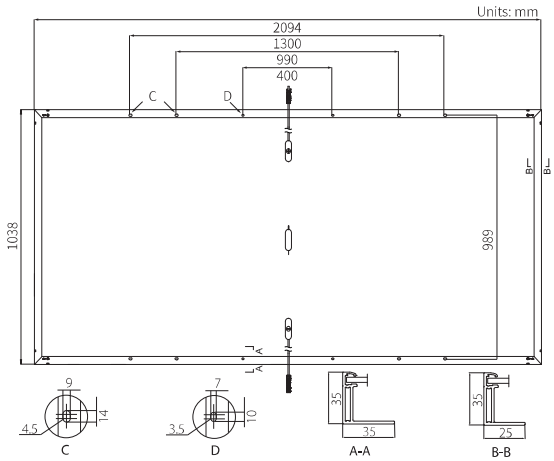
LR4-72HPH 430~460M

21.2%	0~+5W	<2%	0.55%	HALF-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-25 POWER DEGRADATION	Lower operating temperature

Additional Value







Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm², 1400mm length can be customized
Connector	EVO2
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	23.5kg
Dimension	2094×1038×35mm
Packaging	30pcs per pallet / 150pcs per 20' GP / 660pcs per 40' HC

Electrical Characteristics

STC : AM1.5 1000W/m² 25°C Test uncertainty for Pmax: ±3%

Power Class	430	435	440	445	450	455	460
Maximum Power (Pmax/W)	430	435	440	445	450	455	460
Open Circuit Voltage (Voc/V)	48.5	48.7	48.9	49.1	49.3	49.5	49.7
Short Circuit Current (Isc/A)	11.31	11.39	11.46	11.53	11.60	11.66	11.73
Voltage at Maximum Power (Vmp/V)	40.7	40.9	41.1	41.3	41.5	41.7	41.9
Current at Maximum Power (Imp/A)	10.57	10.64	10.71	10.78	10.85	10.92	10.98
Module Efficiency(%)	19.8	20.0	20.2	20.5	20.7	20.9	21.2

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ +5 W
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	20A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

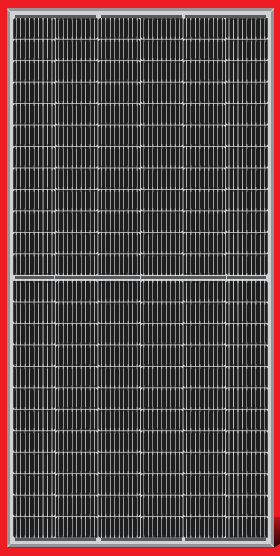
Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Pmax	-0.350%/°C

LONGi

Floor 19, Lujiazui Financial Plaza, Century Avenue 826, Pudong Shanghai, China
Tel: +86-21-80162606
Web: en.longi-solar.com

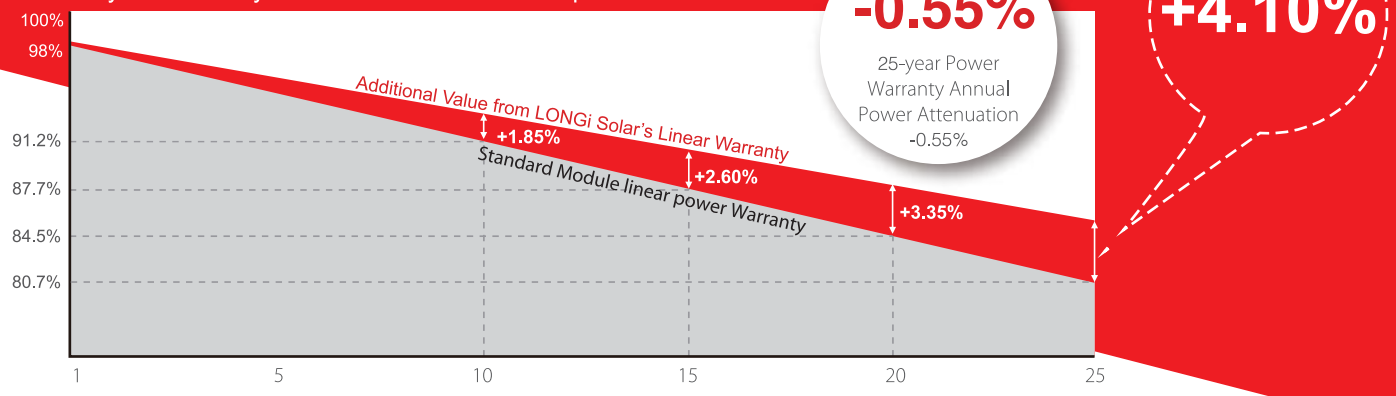
LR5-72HPH
525~545M

Hi-MO 5m



High Efficiency Low LID Mono PERC with Half-cut Technology

12-year Warranty for Materials and Processing;
25-year Warranty for Extra Linear Power Output



Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO 9001:2008: ISO Quality Management System

ISO 14001: 2004: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval

OHSAS 18001: 2007 Occupational Health and Safety

* Specifications subject to technical changes and tests.
LONGi Solar reserves the right of interpretation.

Positive power tolerance (0 ~ +5W) guaranteed

High module conversion efficiency (up to 21.3%)

Slower power degradation enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with optimized electrical design and lower operating current

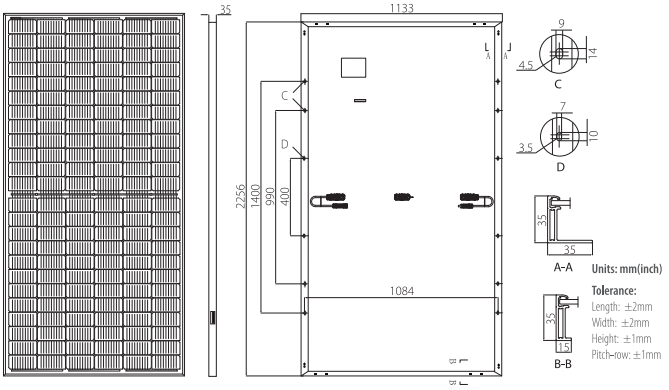
LONGi

Room 801, Tower 3, Lujiazui Financial Plaza, No.826 Century Avenue, Pudong Shanghai, 200120, China
Tel: +86-21-80162606 E-mail: module@longi-silicon.com Facebook: www.facebook.com/LONGi Solar

20200708-Draft V03

LR5-72HPH 525~545M

Design (mm)



Mechanical Parameters

Cell Orientation: 144 (6×24)

Junction Box: IP68, three diodes

Output Cable: 4mm², 300mm in length, length can be customized

Glass: Single glass 3.2mm coated tempered glass

Frame: Anodized aluminum alloy frame

Weight: 27.2kg

Dimension: 2256×1133×35mm

Packaging: 31pcs per pallet
155pcs per 20'GP
620pcs per 40'HC

Operating Parameters

Operational Temperature: -40℃~+85℃

Power Output Tolerance: 0~+5 W

Voc and Isc Tolerance: ±3%

Maximum System Voltage: DC1500V (IEC/UL)

Maximum Series Fuse Rating: 25A

Nominal Operating Cell Temperature: 45±2℃

Safety Protection Class: Class II

Fire Rating: UL type 1 or 2

Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	LR5-72HPH-525M		LR5-72HPH-530M		LR5-72HPH-535M		LR5-72HPH-540M		LR5-72HPH-545M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	525	392.1	530	395.8	535	399.5	540	403.3	545	407.0
Open Circuit Voltage (Voc/V)	49.05	45.98	49.20	46.12	49.35	46.26	49.50	46.41	49.65	46.55
Short Circuit Current (Isc/A)	13.65	11.04	13.71	11.09	13.78	11.15	13.85	11.20	13.92	11.25
Voltage at Maximum Power (Vmp/V)	41.20	38.36	41.35	38.50	41.50	38.64	41.65	38.78	41.80	38.92
Current at Maximum Power (Imp/A)	12.75	10.23	12.82	10.28	12.90	10.34	12.97	10.40	13.04	10.46
Module Efficiency(%)	20.5		20.7		20.9		21.1		21.3	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25℃, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20℃, Spectra at AM1.5, Wind at 1m/S

Temperature Ratings (STC)

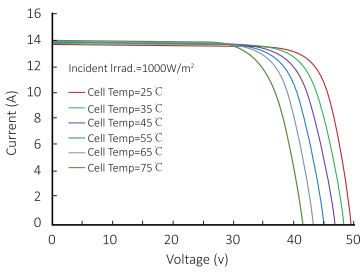
Temperature Coefficient of Isc	+0.048%/℃
Temperature Coefficient of Voc	-0.270%/℃
Temperature Coefficient of Pmax	-0.350%/℃

Mechanical Loading

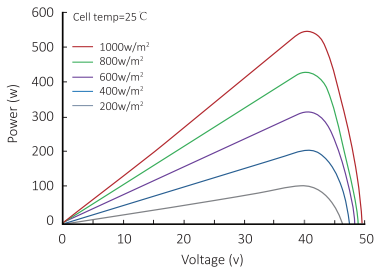
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

I-V Curve

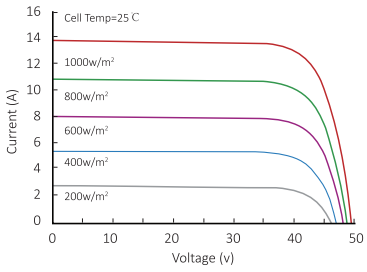
Current-Voltage Curve (LR5-72HPH-530M)



Power-Voltage Curve (LR5-72HPH-530M)



Current-Voltage Curve (LR5-72HPH-530M)



LONGi

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20200708-Draft V03

PV Cable

Brand : LINK

Model : CB-1040X

LINK American Standard

WARRANTY 30 YEARS
LINK FOR THE PERFECT CABLING

SOLAR CABLE

CATALOG 2020-2021

AMERICAN STANDARD

SOLAR CABLE
(Photovoltaic Cable)

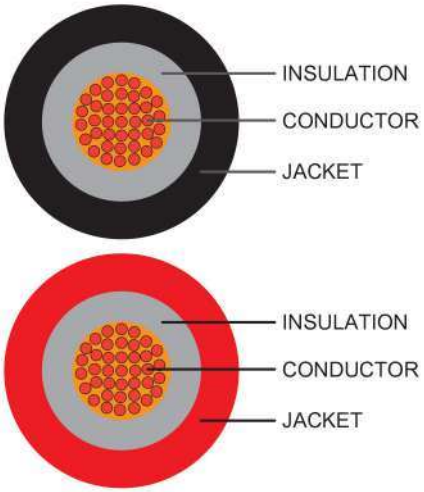
STANDARD

- EN 50618:2014
- IEC 62930:2017
- EN 60288, Class 5
- DIN VDE 0295 Class 5
- TÜV Approvals
- RoHs compliant

TÜVRheinland

FR LSZH

- 40°C 90°C



ELECTRICAL CHARACTERISTIC

Nominal Voltage U_0/U	AC 1000/1000V, DC 1500/1500V
Max. DC voltage	1800V (conductor-conductor, non-earth system, circuit not under load)
AC Test Voltage	6.5 KV
DC Test Voltage	15 KV
Min. Surface resistance of sheath	$10^9\Omega$
Electrical tests	according EN50618:2014

TEMPERATURE

Max. temperature at conductor	-40°C to + 120°C
Temperature Range	-40°C to + 90°C

CABLE CONSTRUCTION

Conductor Material	Fine wire stranded tinned copper according EN 60288 Class 5
Insulation Material	Halogen free, Copolymer Electron beam cross-linked polyethylene (XLPE)
Jacket Material	Halogen free, Copolymer Electron beam cross-linked polyethylene (XLPE) with FR-LSZH
Jacket Color	Red or Black

TECHINCAL SPECIFICATION

Size (mm^2)	Conductor Diameter (N/mm)	Insulation Thickness (mm)	Insulation Diameter (mm)	Jacket Thickness (mm)	Jacket Diameter (mm)	Conductor Resistance at 20°C (Ω/km)	Insulation Resistance at 20°C (MΩ/km)	Rated Current at 60°C (A)
2.5	50/0.25	0.80	3.65±0.2	0.80	5.80±0.3	≤ 8.21	≥ 690	41
4	56/0.30	0.80	4.20±0.2	0.80	6.05±0.3	≤ 4.85	≥ 580	55
6	84/0.30	0.80	4.90±0.2	0.80	6.50±0.3	≤ 3.10	≥ 500	70
10	84/0.4	0.80	5.75±0.2	0.80	8.66±0.3	≤ 1.95	≥ 420	98
16	126/0.4	0.80	7.55±0.2	0.90	10.10±0.3	≤ 1.24	≥ 340	132

ORDER INFORMATION

Part Number	Description	Length	Package
CB-1025X	Solar Cable, H1Z2Z2-K, (1.5/1.5KV DC), 1x2.5 mm^2, (Black or Red)	100/1000 m	Box./Roll.
CB-1040X	Solar Cable, H1Z2Z2-K, (1.5/1.5KV DC), 1x4 mm^2, (Black or Red)	100/1000 m	Box./Roll.
CB-1060X	Solar Cable, H1Z2Z2-K, (1.5/1.5KV DC), 1x6 mm^2, (Black or Red)	100/1000 m	Box./Roll.
CB-1100X	Solar Cable, H1Z2Z2-K, (1.5/1.5KV DC), 1x10 mm^2, (Black or Red)	100/1000 m	Box./Roll.
CB-1160X	Solar Cable, H1Z2Z2-K, (1.5/1.5KV DC), 1x16 mm^2, (Black or Red)	100/1000 m	Box./Roll.

X=Color : B (Black) , R(Red)
Add "-1" at the end of the P/N = 100 m / Box.

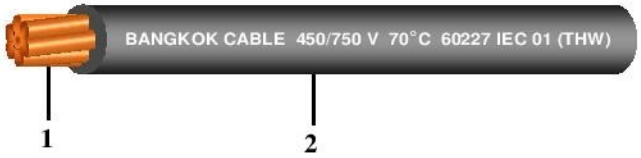
IEC-01 Cable Cable

Brand : BCC

Model : 450/750V 90°C 60227 IEC-01

450/750 V 70°C 60227 IEC 01 (THW)

SINGLE-CORE NON-SHEATHED CABLE WITH RIGID CONDUCTOR



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Black, Light Blue, Brown, Grey, Green/Yellow or other colours

Reference Standard :

TIS 11 Part 3-2553

Classification

Maximum conductor temperature : 70°C
Rated voltage : 450/750 V
AC test voltage : 2,500 V

Application

- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Do not install in duct in ground or direct burial in ground

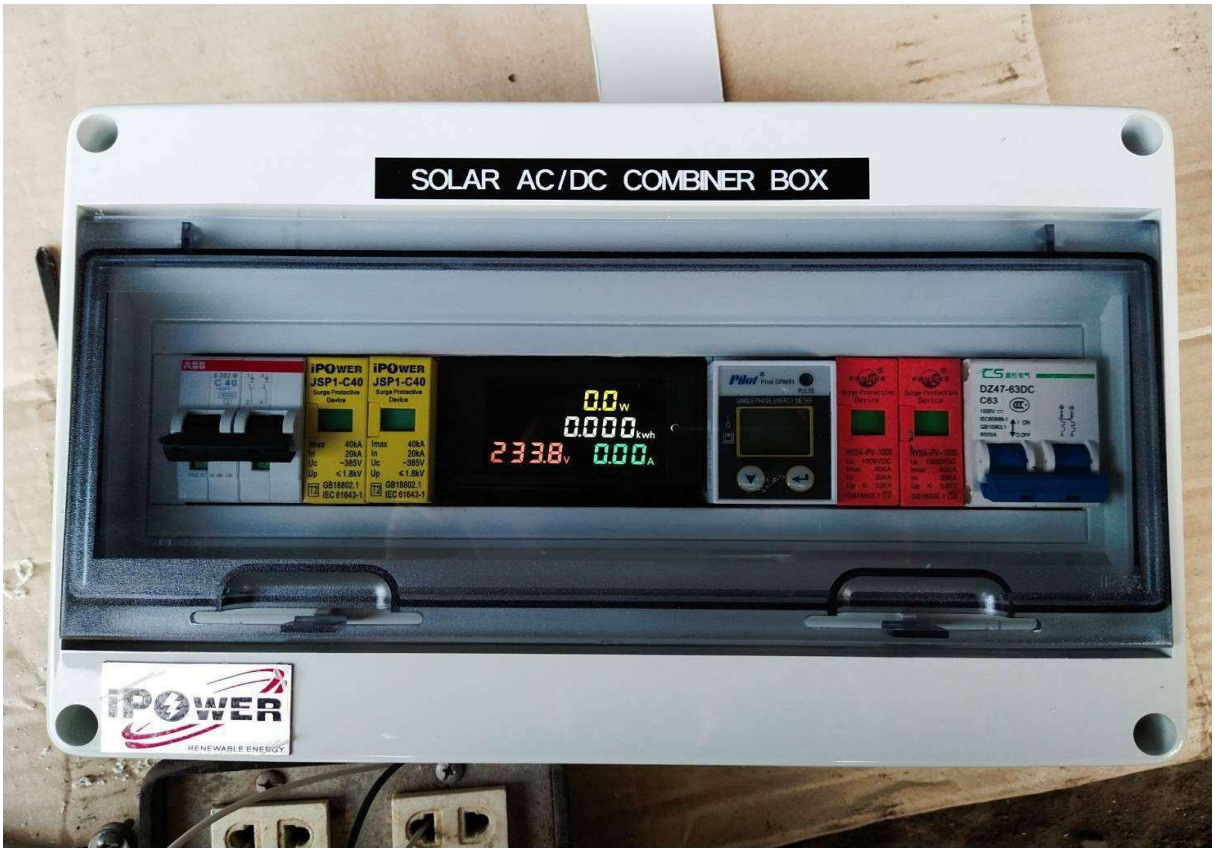
Products code	Conductor			Thickness of insulation	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter		Lower limit	Upper limit				
	mm^2	(Min.)	mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C6KY013V1012	1.5	1	1.36	0.7	2.6	3.2	0.011	21	21	100/C
C6KY013V4012	1.5	7	1.53	0.7	2.7	3.3	0.010	21	22	100/C
C6KY014V1012	2.5	1	1.75	0.8	3.2	3.9	0.010	29	33	100/C
C6KY014V4012	2.5	7	1.98	0.8	3.3	4.0	0.009	29	34	100/C
C6KY015V1012	4	1	2.21	0.8	3.6	4.4	0.0085	37	48	100/C
C6KY015V2012	4	7	2.49	0.8	3.8	4.6	0.0077	37	50	100/C
C6KY016V1012	6	1	2.70	0.8	4.1	5.0	0.0070	48	68	100/C
C6KY016V2012	6	7	3.09	0.8	4.3	5.2	0.0065	48	72	100/C
C6KY017V1012	10	1	3.50	1.0	5.3	6.4	0.0070	67	110	100/C
C6KY017V2012	10	7	3.99	1.0	5.6	6.7	0.0065	67	120	100/C
C6KY018V2012	16	7	5.01	1.0	6.4	7.8	0.0050	92	180	100/C
C6KY019V2012	25	7	6.30	1.2	8.1	9.7	0.0050	127	280	100/C
C6KY010W2012	35	7	7.55	1.2	9.0	10.9	0.0043	157	380	100/C
C6KY011W2011	50	19	8.75	1.4	10.6	12.8	0.0043	191	510	500/D
C6KY012W2011	70	19	10.50	1.4	12.1	14.6	0.0035	244	720	500/D
C6KY013W2011	95	19	12.35	1.6	14.1	17.1	0.0035	297	990	500/D
C6KY014W2011	120	37	13.93	1.6	15.6	18.8	0.0032	345	1,220	500/D
C6KY015W2011	150	37	15.47	1.8	17.3	20.9	0.0032	397	1,510	500/D
C6KY016W2011	185	37	17.29	2.0	19.3	23.3	0.0032	453	1,880	500/D
C6KY017W2011	240	37	19.89	2.2	22.0	26.6	0.0032	535	2,470	500/D
C6KY018W2011	300	61	22.23	2.4	24.5	29.6	0.0030	617	3,080	500/D
C6KY019W2011	400	61	25.20	2.6	27.5	33.2	0.0028	741	3,930	300/D

C = Packing in coil
D = Packing in drum

DC-AC Combiner Box

Brand : LOCAL

Model : DC-AC Combiner Box 3kW,1Phase


SOLAR AC/DC COMBINER BOX
iPOWER
JSP1-C40
Surge Protective Device
iPOWER
JSP1-C40
Surge Protective Device
0.0w
0.000kwh
233.8v 0.00a
DZ47-63DC
C63
iPOWER
RENEWABLE ENERGY