DL5.0C

DL5.0C is designed for residential and small commercial applications, with up to 50 units in parallel and an energy range from 5.12 kWh to 256 kWh. It supports 1C discharge rate. With high cycle times and a long lifespan, it ensures worry-free electricity consumption.

Flexible Expansion

Up to 50 units in parallel, 5.12kWh--256kWh capacity

1C Discharge

Simultaneously supplying power to multiple loads, no need to worry about power outages

Automatic Self-heating

-20°C to 55°C operating temperature (optional)

Easy Installation

Support wall-mounted, floor-mounted, stacked and rack-mounted installations, high space utilization

Long-term Reliability

LFP cells, 6000+ cycles, 10 years warranty

All-round Safety

Short-circuit lockout, surge-resistant, safe and reliable

Model	DL5.0C
Battery Type	$LiFePO_4$
Nominal Battery Energy	5.12 kWh
Nomina Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8~57.6V
Recomended Charge & Discharge C Rate	0.5C
Maximum Discharge Crate	1C
Recommended Charge/Discharge Current	50A
Max. Charge/Discharge Current	Charge 75A Discharge 100A
Peak Discharge Current	110A(15s)
Depth of Discharge (DOD)	90%
Net Weight	54kg
Dimension[W/D/H](mm)	558/545/150
Charging Temp. Range	0~55°C/-20~55°C (with heating function)
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485/RS232
Cycle Life *	≥6000 Cycles
Protection Level	IP20
WIFI Module	Optional
Expansion	Up to 50 units in parallel
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/CEI-021/GOST-R
Compatible Inverterst	SMA/Schneider/Victron energy/Ingeteam/Solis/GoodWe/Growatt/Soplanet/Luxpower/DEYE etc.

* Test conditions: 0.2C Charging & Discharging. @25°C, 90% DOD

www.jinkosolar.com

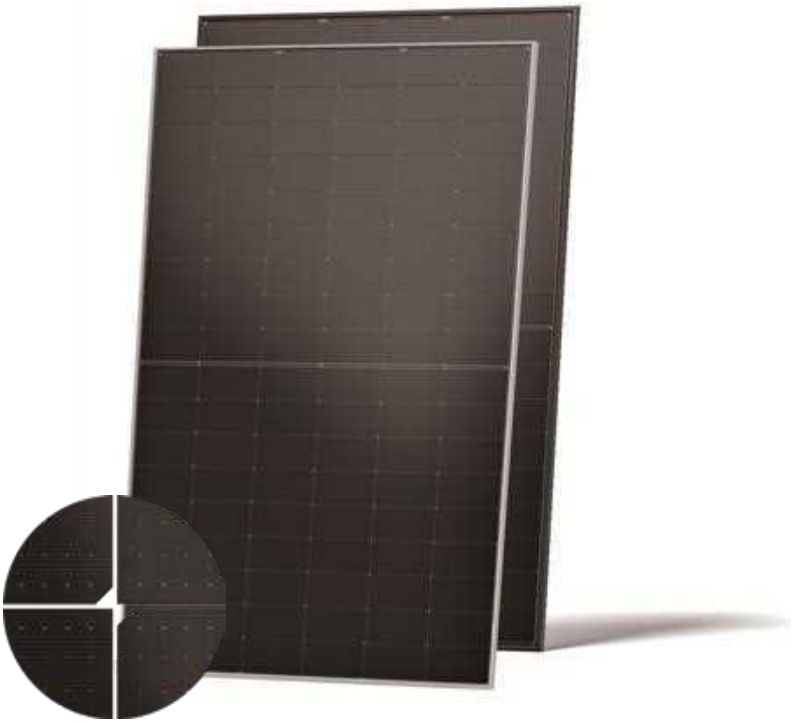
Tiger Neo

54HL4M-BDV

495-520 Watt

BIFACIAL MODULE WITH DUAL GLASS

N-type

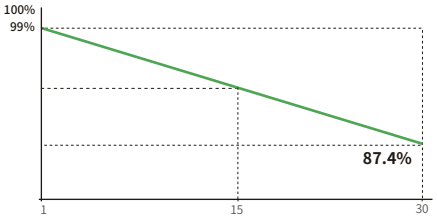


N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPCon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



15Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.40**% Annual Degradation Over 30 Years

Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.

Mechanical Load Enhanced

Certified to withstand:
5400 Pa front side max static test load
2400 Pa rear side max static test load

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

Better light trapping and current collection to improve module power output and reliability.

Anti-PID Guarantee

Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.

CLEAN ENERGY COUNCIL MEMBER

POSITIVE QUALITY™ Continuous Quality Assurance

JKM495-520N-54HL4M-BDV-F1-EN

54HL4M-BDV 495-520 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	108 (54×2)
Dimensions	1961×1134×30 mm
Weight	27.0 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M / JK03M2 / Others*
Output Cables (Including Connector)	4.0 mm² (+): 400 mm , (-): 200 mm or Customized Length

* MC4 and MC4-EVO2 available upon request and subject to availability

Packaging Configuration

Pallet Dimensions	1981×1140×1249 mm
Packing Detail (Two pallets = One stack)	37 pcs/pallets, 74 pcs/stack, 888 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	495	500	505	510	515	520
Maximum Power Voltage - Vmp [V]	33.72	33.95	34.17	34.39	34.62	34.83
Maximum Power Current - Imp [A]	14.68	14.73	14.78	14.83	14.88	14.93
Open-circuit Voltage - Voc [V]	40.21	40.38	40.55	40.72	40.89	41.06
Short-circuit Current - Isc [A]	15.58	15.63	15.68	15.73	15.78	15.83
Module Efficiency STC [%]	22.26	22.48	22.71	22.93	23.16	23.38
Power Tolerance	0 ~ + 3 %					
Temperature Coefficients of Pmax	-0.29 %/°C					
Temperature Coefficients of Voc	-0.25 %/°C					
Temperature Coefficients of Isc	0.045 %/°C					

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

Specifications (BNPI)

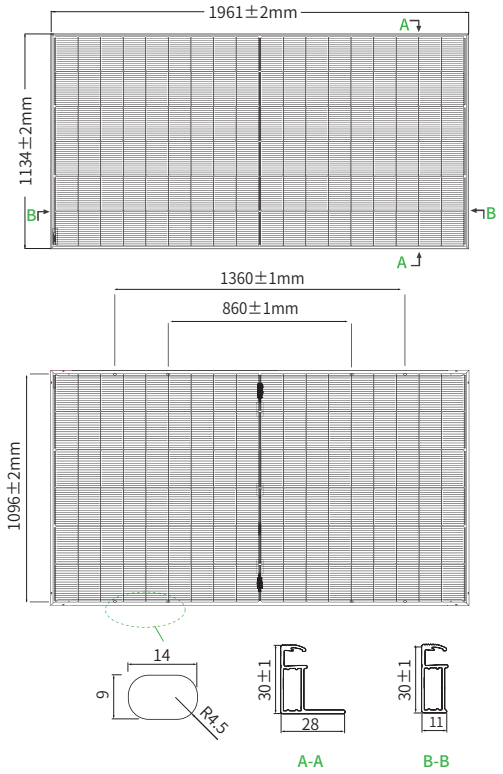
Maximum Power - Pmax [Wp]	545	551	556	562	567	573
Maximum Power Voltage - Vmp [V]	33.72	33.95	34.17	34.39	34.62	34.83
Maximum Power Current - Imp [A]	16.16	16.22	16.27	16.33	16.38	16.44
Open-circuit Voltage - Voc [V]	40.21	40.38	40.55	40.72	40.89	41.06
Short-circuit Current - Isc [A]	17.15	17.21	17.26	17.32	17.37	17.43

BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM=1.5

Application Conditions

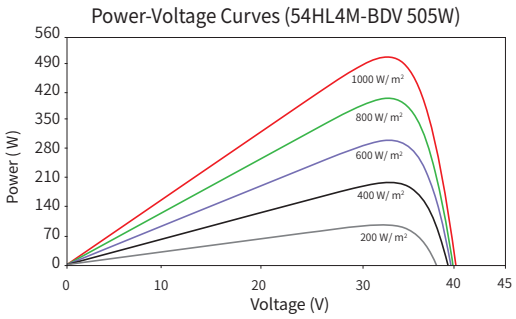
Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	35 A
Bifaciality Coefficient	φVoc: 98±5 %, φIsc: 80±5 %, φPmax: 80±5 %

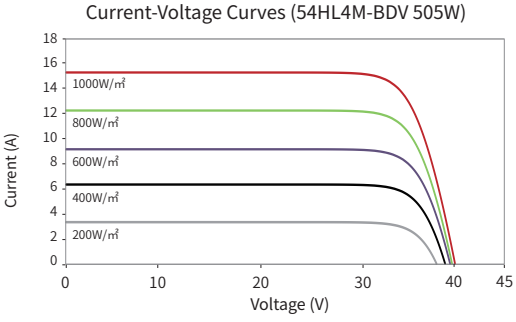
Engineering Drawings



*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance





Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

ECO HYBRID

Single-Phase

SNA **12K**

- 2 MPPTs with 4 strings, Max. 24kW PV input
- Max. charging and discharging current: 250A
- Off-grid application for high demand with 12kW output power
- Dual AC output ports for multiple load connections
- Separate GEN port

  -Up to 19.2kW Gen/AC coupling input

  -Auto generator start and stop control
- Integrated Design with Load and Battery Breaker
- PV or AC or Generator wake up battery

Specification

Your Reliable Energy Solution Partner

INPUT (PV DC)	SNA 12K
Max. PV array power (W)	24000 (12000/12000)
Rated PV input voltage (V)	320
Number of independent MPPT inputs	2/(2:2)
PV input voltage range (V)	100-480
MPPT voltage range (V)	120-385
Start-up voltage (V)	100
Max. PV input current per MPPT (A)	35/35
Max. PV short-circuit current input per MPPT (A)	44/44
Battery	
Compatible battery type	Lithium-ion/Lead-Acid
Rated battery voltage (V)	48/51.2
Battery voltage range (V)	46.4-60/38.4-60
Max. charging / discharging current (A)	250
Max. charging / discharging power (W)	12000
Force wake up battery from PV and Grid function	YES
Grid	
Rated AC voltage (V)	230
Acceptable Input Voltage Range (V)	90~280
Rated AC frequency (Hz)	60/50
Rated AC intput current (A)	100
Rated AC intput power (W)	24000
PF	0.99
THDI	<5%
Max. continuous AC passthrough current(A)	100
UPS	
Rated output power (W)	12000
Rated output voltage (V)	230
Rated output current (A)	50
Rated output frequency (Hz)	50/60
Surge power, duration	2Pn, 5s
Switching time (UPS)	<10ms@Single and Parallel
Wave form	Sine wave
THDV	3%
GEN	
Acceptable input voltage range	230
Max. AC input voltage (V)	280
Max. AC input current (A)	63
Rated input frequency	50Hz/60Hz (Auto detection)
Transfer time	<10ms@Single; <20ms@Parallel
THDV	<3%
Overload protection	5s@≥150% load /10s@110%~150% load
Efficiency	
Max. efficiency	93.5%
Max. charging / discharging efficiency	93.0%
Max. MPPT efficiency	99.0%
Protection	
PV reverse polarity protection(Y/N)	YES
Over current / voltage protection(Y/N)	YES
AC Short-circuit current protection(Y/N)	YES
Grid monitoring(Y/N)	YES
DC switch(Y/N)	YES
DC / AC Surge protection Type III	YES
Battery reverse polarity protection(Y/N)	YES
General	
Dimensions (W*H*D mm)	530*830*150mm(17.72*25.59*5.9inch)
Weight	40kg/88.2lbs
Ingress protection rating	IP20
Operating environment temperature range(°C)	0~45
Storage temperature range(°C)	-15~60
Relative humidity	5% ~ 95%
Display & Communication interface	LCD+RGB, RS485 / Wifi / CAN
Warranty	2 years
Cooling method	Smart cooling
Topology on AC / Battery side	Transformer-less / Transformer
Altitude (m)	<2000
Noise emission (typical)	<50dB
Standard & Certification	
CE	

solis

GINLONG TECHNOLOGIES CO.,LTD.

S6-EH1P(3-8)K-L-PLUS

Solis Single Phase Low Voltage Energy Storage Inverters

New PLUS model provides solutions for demanding power scenarios

Features:

- Generator-compatible to extend backup duration during grid power outage
- Multiple inverters can operate together to form a microgrid
- Supports dual backup ports for intelligent control of critical and non-critical loads
- 10 seconds of 200% overload capability
- Automatic switchover time is < 4ms, providing seamless transitions from grid to backup
- Ensures excellent power supply stability, keeping the load unaffected by a weak grid or generator supply fluctuations

Models:

S6-EH1P3K-L-PLUS / S6-EH1P3.6K-L-PLUS

S6-EH1P4.6K-L-PLUS / S6-EH1P5K-L-PLUS

S6-EH1P6K-L-PLUS / S6-EH1P8K-L-PLUS

DATASHEET

S6-EH1P(3-8)K-L-PLUS

Models	3K	3.6K	4.6K	5K	6K	8K
Input DC (PV side)						
Recommended max. PV array size	6 kW	7.2 kW	9.2 kW	10 kW	12 kW	16 kW
Max. usable PV input power	4.8 kW	5.76 kW	7.36 kW	8 kW	9.6 kW	12.8 kW
Max. input voltage	500 V					
Rated voltage	330 V					
Start-up voltage	90 V					
MPPT voltage range	90 - 435 V					
Max. input current	16 A / 16 A					32 A / 32 A
Max. short circuit current	20 A / 20 A					40 A / 40 A
MPPT number / Max. input strings number	2 / 2					2 / 4
Battery						
Battery type	Li-ion / Lead-acid					
Battery voltage range	40 - 60 V					
Max. charge / discharge power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW	8 kW
Max. charge / discharge current	70 A	80 A	105 A	112 A	135 A	190 A
Communication	CAN / RS485					
Output AC (Grid side)						
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW	8 kW
Max. apparent output power	3 kVA	3.6 kVA	4.6 kVA	5 kVA	6 kVA	8 kVA
Operation phase	L/N/PE					
Rated grid voltage	220 V / 230 V					
Rated grid frequency	50 Hz / 60 Hz					
Rated grid output current	13.7 A / 13.1 A	16.4 A / 15.7 A	20.9 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A
Max. output current	13.7 A / 13.1 A	16.4 A / 15.7 A	20.9 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)					
THDi	< 2%					
Input AC (Grid side)						
Input voltage range	187 - 253 V					
Max. input current	21 A	25 A	29 A	32 A	40 A	50 A
Frequency range	45 - 55 Hz / 55 - 65 Hz					
Output AC (Back-up)						
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW	8 kW
Max. apparent output power	2 times of rated power, 10 s					
Back-up switch time	< 4 ms					
Rated output voltage	L/N/PE, 220 V / 230 V					
Rated frequency	50 Hz / 60 Hz					
Rated output current	13.7 A / 13.1 A	16.4 A / 15.7 A	20.9 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A
Max. AC passthrough current	35 A	35 A	40 A	40 A	40 A	50 A
THDv (@linear load)	< 2%					
Efficiency						
Max. efficiency	96.2%					
EU efficiency	96.1%					
BAT charged by PV / AC max. efficiency	95.3% / 93.9%					
BAT discharged to AC max. efficiency	93.8%					
Protection						
Ground fault monitoring	Yes					
DC reverse-polarity protection	Yes					
Integrated AFCI 2.0	Optional					
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)					
General Data						
Dimensions (W × H × D)	335 × 560 × 227 mm					
Weight	21.6 kg					22.2 kg
Topology	High frequency isolation (for battery)					
Operating ambient temperature range	-40 ~ +60°C					
Ingress protection	IP66					
Cooling concept	Natural cooling				Intelligent fan-cooling	
Max. operation altitude	3000 m					
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150					
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3					
Features						
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)					
AC connection	Terminal Block					
Display	7.0" LCD display & Bluetooth + APP					
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN					

ITA

X-HALF CUT N-TYPE serie TOPCon +

435/460Wp
Power

TOPCon +
Technology Innovation

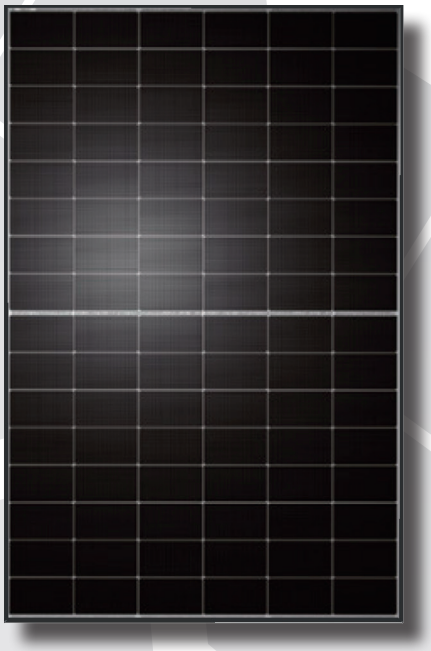
Bifacciale

23.01%
Efficienza

2400Pa
carico del vento

5400Pa
carico di neve

-0.29%/°C
Coefficiente di temperatura



L'innovazione tecnologica X-HALF CUT N-Type serie TOPCON prevede l'introduzione di un sottile strato di ossido tra i contatti metallici e il wafer di silicio, che apporta significativi miglioramenti all'efficienza di conversione delle celle e alle prestazioni di generazione di energia.

Garanzia lineare:

- **30 anni garanzia lineare**
- **99%** alla fine del **1**°anno
- **87,4%** alla fine del **30**° anno

Garanzia di prodotto:

- **15 anni garanzia lineare**

CONFORME A

| UNI9177 | PV CYCLE | CE |

UNI EN ISO 9001:2015 | Sistema di gestione della Qualità
UNI EN ISO 14001:2015 | Sistema di gestione ambientale
UNI EN ISO 45001:2018 | Sistema di gestione per la salute e sicurezza sul lavoro

DATI ELETTRICI (STC)		XMHCTV3435BFD-GBW+H	XMHCTV3440BFD-GBW+H	XMHCTV3445BFD-GBW+H	XMHCTV3450BFD-GBW+H	XMHCTV3455BFD-GBW+H	XMHCTV3460BFD-GBW+H
Tensione circuito aperto	(Voc)	35.40 V	35.60 V	35.80 V	36.00 V	36.20 V	36.40 V
Tensione a Pmax	(Vmp)	30.00 V	30.20 V	30.40 V	30.60 V	30.80 V	31.10 V
Corente di corto circuito	(Isc)	15.46 A	15.52 A	15.58 A	15.64 A	15.70 A	15.76 A
Corrente a Pmax	(Imp)	14.50 A	14.57 A	14.64 A	14.71 A	14.77 A	14.83 A
Potenza di picco	(Pmax)	435 Wp	440 Wp	445 Wp	450 Wp	455 Wp	460 Wp
Efficienza modulo		21.77%	22.02%	22.27%	22.52%	22.77%	23.01%
Tolleranza di potenza in uscita		0 ~ + 5 W					
Tensione massima di sistema		1500 V					
Portata fusibile in serie		30 A					
Temperatura d'esercizio		- 40°C ~ +85°C					

* STC: Irraggiamento 1000 w/m2, Temperatura celle 25°C, AM= 1.5

Tolleranza misura elettrica e potenza d'uscita ±3%.

PARAMETRI DI GENERAZIONE DI POTENZA SU ENTRAMBI I LATI (GUADAGNO POSTERIORE)

5%	Potenza di Picco	(Pmax)	457.00 Wp	462.00 Wp	467.00 Wp	473.00 Wp	478.00 Wp	483.00 Wp
	Efficienza modulo	(%)	22.90%	23.10%	23.40%	26.60%	23.90%	24.10%
15%	Potenza di Picco	(Pmax)	500.30 Wp	506.00 Wp	511.80 Wp	517.50 Wp	523.30 Wp	539.00 Wp
	Efficienza modulo	(%)	25.00%	25.30 %	25.60%	25.90%	26.20%	26.40%
25%	Potenza di Picco	(Pmax)	543.80 Wp	550.00 Wp	556.30 Wp	562.50 Wp	568.80 Wp	575.00 Wp
	Efficienza modulo	(%)	27.20%	27.50%	27.80%	28.20%	28.50%	28.70%

COEFFICIENTE DI TEMPERATURA

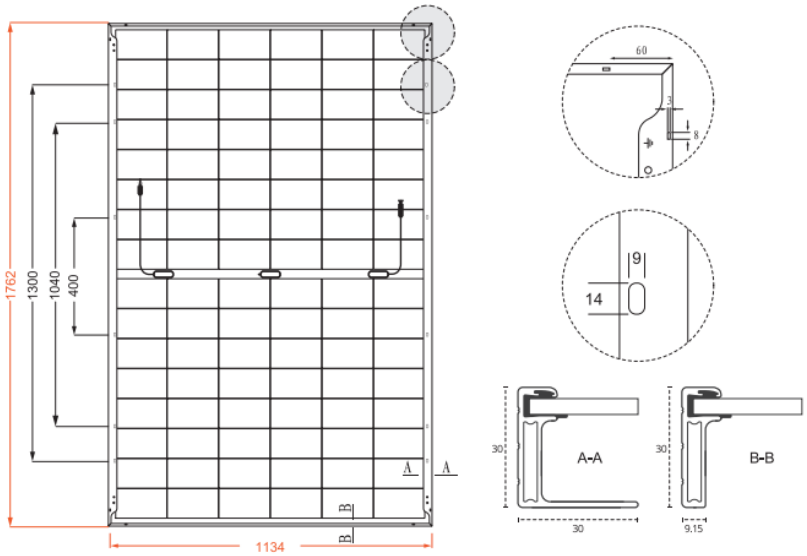
NOCT	**45°C±2°C**
Pmax Coefficiente di temperatura	**-0.290%/ °C**
Voc Coefficiente di temperatura	**-0.250%/ °C**
Isc Coefficiente di temperatura	**0.046% / °C**

CARATTERISTICA MECCANICA

Maximum Load	**5400 Pa / 2400 Pa**
Dimensioni (mm)	**1762 x 1134 x 30**
Peso (Kg)	**23.90**
Tipo di cella	**N type Bifacial Mono**
N. celle	**96 (6*16)**
Bifaccialità	**80±5%**

PACKING

Pallet per container	**36 pcs**
Moduli per container 40'HQ	**936 pcs**



INFORMAZIONI GENERALI

Vetro Frontale	**2,0 mm vetro semi temperato**
Vetro Posteriore	**2,0 mm vetro smaltato**
Cornice	**Lega in alluminio anodizzato**
Junction Box	**IP68, 3 Bypass Diodes**
Cavo di uscita - Connettori	**4.0mm², cavo 1250mm, con connettori compatibili MC4**