

Anhang

Palette: 28 gem.						
Hersteller	Typ	Serien-Nr.	Module pro Palette	Gerätedaten	Beschädigungen	Aufbau der Module
Kyoc ERH Corporation	KC120-2	01934B0439	1	120W	/	Polykristalline
Total Energie	TE 1200	0112005xxx	8	120W	Fehlende Kabel	Monokristalline
Suntech	STP170S-24/1a	01110011160 47	1	170W	Schnecken Spuren	Monokristalline
Sharp	ND-17Se1F	105470663V	2	175W	Verschmorte Anschlussdose	Polykristalline
Canadian Solar	CS5A-170M	552270117	1	170W	/	Monokristalline
Asteria	Asteria 175SPX	01650003694	3	175W	Deckel der Anschlussdose fehlt	Polykristalline
Sharp Solar Module	NE170 41	052023552	2	170W	/	Polykristalline
Solar World	SW 220 Poly	308365165	1	220W	/	Polykristalline
REC Wolar	SCM 210 (210)	1000546861	1	210W	/	Polykristalline
Canadian Solar	/	03100403200 07	8	/	Kein Typenschild vorhanden	Polykristalline

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Fach

Prüfprotokoll für Solar-Module

HME Hamburger Müllentsorgung und Rohstoffverwertungsgesellschaft mbH; Andreas-Meyer-Straße 39; 22113 Hamburg

Protokoll bezieht sich auf alle sich auf einer Palette befindlichen Solar-Module

Projektnr.: 28		Zuordnungsnr.	Typ	Serien-Nr.	Module pro Palette	Geräte-daten	Optischer Zustand (Note 1 - 6)	Beschädigung (Ankauf möglich) --> Prüfung bestanden	Beschädigung (Ankauf NICHT möglich) --> Prüfung NICHT bestanden	Bemerkung	Aufbau der Module
Hersteller								<input type="checkbox"/> Schnecken Spuren <input type="checkbox"/> Microcracks & Zellbruch <input type="checkbox"/> Verfärbung Rückseite <input type="checkbox"/> Defekte Solar-kabel <input type="checkbox"/> Verfärbung Zellverbinder <input type="checkbox"/> Rahmenschäden <input type="checkbox"/> Verschnittene Anschlusskabel <input type="checkbox"/> Fehlende Stecker (Kabel) 19 Stk.	<input type="checkbox"/> PV Modul mit Glasbruch <input type="checkbox"/> PV Modul mit Delamination <input type="checkbox"/> PV Modul mit Hotspot <input type="checkbox"/> Schmorstellen (Frontseite) <input type="checkbox"/> Schmorstellen (Rückseite) <input type="checkbox"/> Verschnittene Rückseite (komplett)		<input checked="" type="checkbox"/> Polykristalline <input checked="" type="checkbox"/> Monokristalline
Gemischt	28. gem		s. Anhang	s. Anhang	28	V: A: W: Hz:	2-3				<input type="checkbox"/> Dünnschicht

Zuordnungsnr.: Im Falle, dass innerhalb eines Projektes verschiedene Hersteller von Solar-Modulen vertreten sind, wird durch die HME eine Zuordnungsnr. zu den jeweiligen Herstellern verteilt, um anschließend besser separieren zu können.

Auf Funktion geprüft ☒ Ja ☐ Nein

Funktionsprüfung: O.g. Funktionsprüfung bezieht sich auf das Messen d.h. Parameter via Multimeter / Vielfachmessgerät.

Befund: ☒ Wiederverwendung

Fazit: ☒ Prüfung bestanden


☐ Verwertung ☐ Sonstiges

☐ Weitere Prüfung/ Reparatur
☐ Prüfung nicht bestanden

Anlieferungsdatum: 30.08.2017

Name Prüfer/-in (leserlich): Huro, Farhad

Prüfdatum: 06.09.2017

Unterschrift Prüfer/-in: 





警告 WARNING



感電の恐れあり
端子部にさわるな

HAZARDOUS ELECTRICITY CAN
SHOCK, BURN OR CAUSE DEATH.
DO NOT TOUCH TERMINALS.



太陽電池モジュール

PHOTOVOLTAIC MODULE



型式 MODEL	KC120-2
製造番号 SER. NO.	01934B0439
製造年月 DATE	2001.9
公称最大出力 NOMINAL MAXIMUM OUTPUT	120 W
公称開放電圧 NOMINAL OPEN CIRCUIT VOLTAGE	21.5 V
公称短絡電流 NOMINAL SHORT CIRCUIT CURRENT	7.45 A
公称最大出力動作電圧 NOMINAL MAXIMUM OUTPUT VOLTAGE	16.9 V
公称最大出力動作電流 NOMINAL MAXIMUM OUTPUT CURRENT	7.10 A
最大システム電圧 MAXIMUM SYSTEM VOLTAGE	750 V
	公称質量 NOMINAL MASS 12.2 kg

製造者
MANUFACTURER

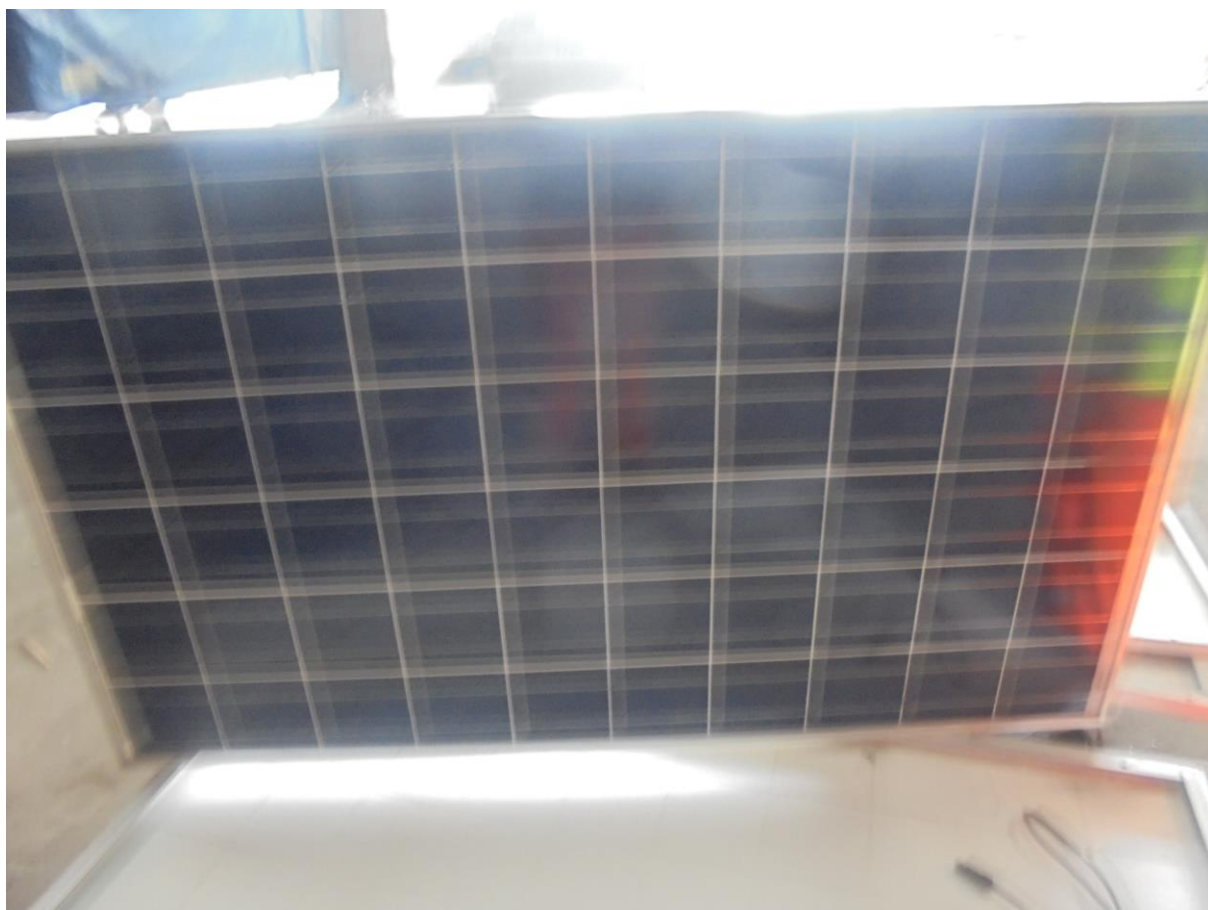


京セラ株式会社
KYOCERA CORPORATION

MADE IN JAPAN








SOLARWORLD
THE SUN-POWERED COMPANY

Sunmodule[®] SW220 poly

www.solarworld.de 2-52712 Bonn, Germany

Rated Max. Power	P_{max}	[W]	220 (+/- 3%)
Open Circuit Voltage	V_{oc}	[V]	36.6
Rated Voltage	V_{mp}	[V]	29.8
Short Circuit Current	I_{sc}	[A]	8
Rated Current	I_{mp}	[A]	7.4

Power Specifications at STC: 1000W/m², 25°C, AM 1.5
Maximum System Voltage Safety Class II 1000 V_{DC}






Certified according to IEC61215

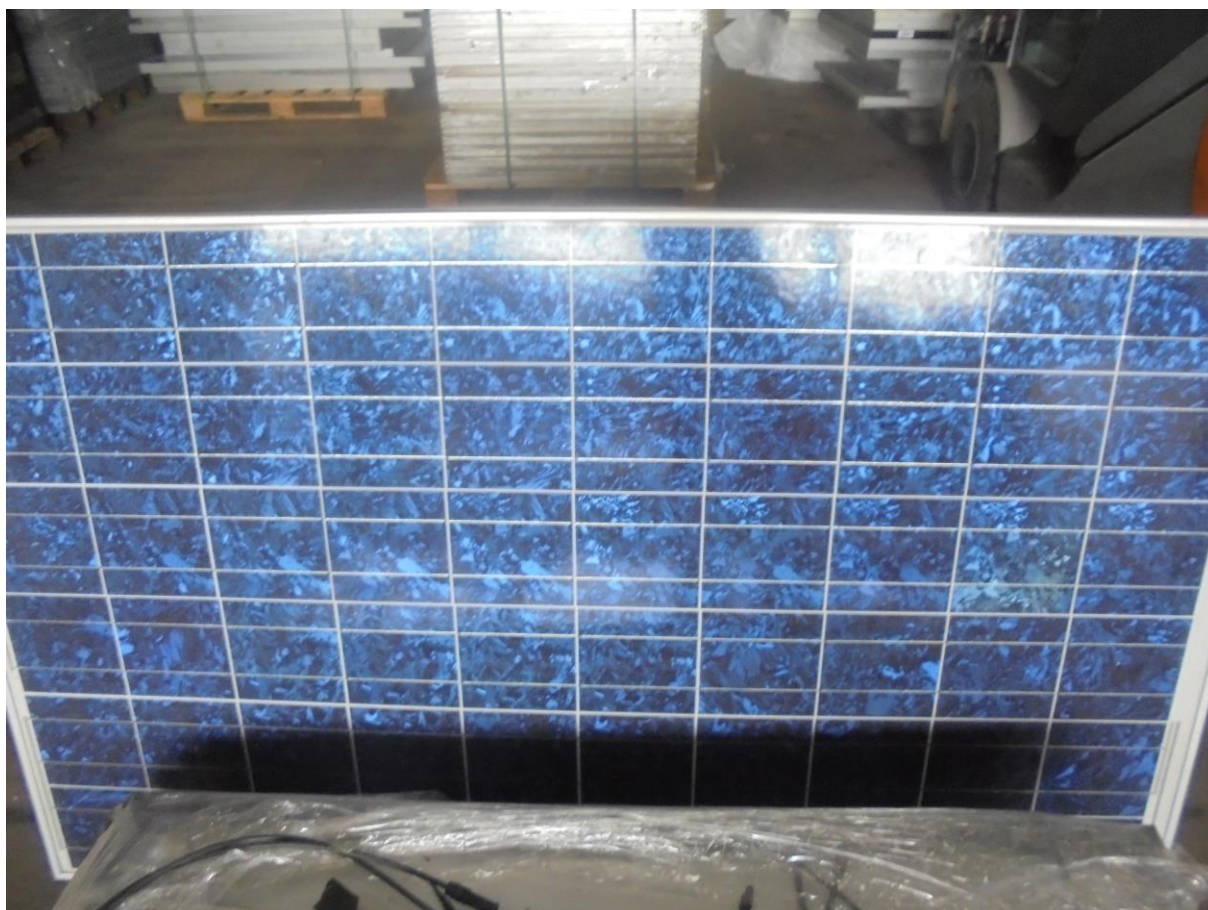
  

Manufactured in Germany

Caution
Potential electrical hazard



 REC Solar		Serial No: 1000546861	SCM210(210)
Nominal Power (P _{mp})	210 W	TUV certified -Qualified IEC 61215 -Safety class II tested -Periodic inspection   Class II	
Power Output Tolerance	+5 %		
Short Circuit Current (I _{sc})	8.11 A		
Open Circuit Voltage (V _{oc})	36.26 V		
Rated Voltage (V _{mp})	28.17 V		
Rated Current (I _{mp})	7.46 A		
Maximum System Voltage	1000 V		
 <p>Warning: electrical hazard. This module produces electricity when exposed to light. Follow all applicable electricity safety precaution. Only qualified personnel should install or perform maintenance work on module. Be aware of dangerous high DC voltage when connecting or disconnecting modules.</p> <p>Do not damage or scratch the rear surface of the module. Do not handle or install modules when they are wet. Refer to installation and operation manuals before installing, servicing and operating this unit.</p> <p>Produced by REC Scanmodule AB, Product made in Sweden</p>  1000546861			



SHARP SOLAR MODULE

ND-175E1F

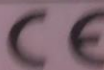


NOMINAL RATINGS		
MAXIMUM POWER (+10%/-5%) (P_{max})		175.0W
OPEN-CIRCUIT VOLTAGE (V_{oc})		29.4V
SHORT-CIRCUIT CURRENT (I_{sc})		8.10A
VOLTAGE AT POINT OF MAXIMUM POWER (V_{mp})		23.3V
CURRENT AT POINT OF MAXIMUM POWER (I_{mp})		7.52A
MAXIMUM SYSTEM VOLTAGE		1000V
OVER-CURRENT PROTECTION		15A
(IRRADIANCE OF 1000W/M ² , AM1.5 SPECTRUM AND CELL TEMPERATURE OF 25 °C)		

APPLICATION CLASS A



Ser. No. 105459653 V



FORWARD TO THE USER





Made in the
European Community



Module Type: ASTERIA 175PX

Rated Power (P_{max}):.....175 W
Rated Voltage (V_{mpp}):.....34.8 V
Rated Current (I_{mpp}):.....5.03 A
Short Circuit Current (I_{sc}):.....5.3 A
Open Circuit Voltage (V_{oc}):.....43.2 V
Max. System Voltage (V_{DC}):.....770 V

(Above specifications at STC: Insol. 1000 W/m², AM 1.5, Cell T 25°C)

ASTERIA





Canadian Solar Inc.

MODEL TYPE: CS5A-170M

OPEN CIRCUIT VOLTAGE:	43.2 V
SHORT CIRCUIT CURRENT:	5.38 A
VOLTAGE@PEAK POWER:	34.4 V
CURRENT@PEAK POWER:	4.95 A
TYPICAL PEAK POWER:	170 W

Measured at: 25°C, One Sun, A.M=1.5

MAXIMUM SYSTEM VOLTAGE: 1000V

WARNING / ELECTRIC HAZARD

This product generates electricity when exposed to sunlight or intense artificial lights. Thirty volts or greater is considered a shock hazard. Do not contact terminals when module is exposed to sunlight or intense artificial lights. Do not produce sparks near flammable vapors. Follow safety precautions of the battery manufacturer if batteries are used. Do not immerse in liquids. Do not shadow cells. Do not expose module to concentrated light with mirrors, lenses or similar means. Install modules and ground frames in accordance with local electric codes. Consult your dealer for proper installation on special vehicles such as boats and campers. Product must be installed and maintained by qualified personnel. Keep module away from children.



Customer inquiry: inquire@csisolar.com



SHARP

SOLAR MODULE

NE-170U1

UL US LISTED
2PB9
PHOTOVOLTIC MODULE
E160673

THE ELECTRICAL CHARACTERISTICS ARE WITHIN ± 10 PERCENT OF THE INDICATED VALUES OF I_{sc} , V_{oc} , AND $+10/-5$ PERCENT OF P_{max} UNDER STANDARD TEST CONDITIONS (IRRADIANCE OF $1000W/m^2$, AM1.5 SPECTRUM AND CELL TEMPERATURE OF $25^{\circ}C$)

MAXIMUM POWER	(P_{max})	170.0 W
OPEN-CIRCUIT VOLTAGE	(V_{oc})	43.2 V
SHORT-CIRCUIT CURRENT	(I_{sc})	5.47 A
MAXIMUM POWER VOLTAGE	(V_{pmax})	34.8 V
MAXIMUM POWER CURRENT	(I_{pmax})	4.90 A
MAXIMUM SYSTEM VOLTAGE		600 V
FUSE RATING		10 A
FIRE RATING		CLASS C
FIELD WIRING		COPPER ONLY 14 AWG MIN. INSULATED FOR $90^{\circ}C$ MIN.
SERIAL No.		052023552

SHARP ELECTRONICS CORPORATION
SOLAR SYSTEMS DIVISION
5901 BOLSA AVENUE, HUNTINGTON BEACH, CALIFORNIA 92647
MADE IN MEMPHIS • TN FROM DOMESTIC & IMPORTED PARTS

TSPC-A008MNZZ



Suntech

Model Number	STP170S-24/Aa	
Panel Maximum Power	(P _{max})	170W
Current at P _{max}	(I _{mp})	4.83A
Voltage at P _{max}	(V _{mp})	35.2V
Short Circuit Current	(I _{sc})	5.14A
Open Circuit Voltage	(V _{oc})	43.8V
Nominal Operating Cell Temp.	(T _{occr})	50°C
Weight	15.5kg	
Dimension	1580x808x50 (mm)	
Maximum System Voltage	1000V	
Maximum Series Fuse Rating	8A	
Cell Technology	mono-Si	

All values are at standard test condition
STC: 1000W/m², 1000h, T_c=25°C



TOTAL ENERGIE

MODULE TYPE : TE 1200

TYPICAL PEAK POWER (Pmax) :	120 Wp
VOLTAGE @ PEAK POWER (Vmp) :	16.9 V
CURRENT @ PEAK POWER (Imp) :	7.1 A
SHORT CIRCUIT CURRENT (Isc) :	7.7 A
OPEN CIRCUIT VOLTAGE (Voc) :	21 V

(Above specifications @ STC: Insol. 1000W/m², AM 1.5, Cell T 25°C)

MAXIMUM SYST. OPER. VOLTAGE :	600 V
MINIMUM BYPASS DIODE :	8 A
MAXIMUM SERIES FUSE RATE :	15 A

COPPER FIELD WIRING 1.5 - 4 mm²/AWG 11 - 16
INSULATED FOR MINIMUM 75°C

