

Auftraggeber / Applicant Data form for electrical equipment and machinery



Auftraggeber / Applicant:	BYD CO LTD. Baolong Industrial Town, 1 Bao Ping Rd., 518116 Longgang, Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA																																												
Fertigungsstätte / Production facility:	Shanghai BYD Company Limited No.999 Xiangjing Road, Songjiang, 201611 Shanghai, PEOPLE'S REPUBLIC OF CHINA																																												
Geräteart / Type of equipment:	Mono-crystalline & Poly-crystalline Silicon Photovoltaic (PV) Module																																												
Typenbezeichnung / Type/model:	<table border="0"> <tr> <td>a) 72 6" mono cells:</td> <td>BYD260M6-36, BYD265M6-36, BYD270M6-36, BYD275M6-36, BYD280M6-36, BYD285M6-36, BYD290M6-36, BYD295M6-36, BYD300M6-36, BYD305M6-36, BYD310M6-36, BYD315M6-36</td> </tr> <tr> <td>a1) 72 6" mono cells:</td> <td>BYD260M6C-36, BYD265M6C-36, BYD270M6C-36, BYD275M6C-36, BYD280M6C-36, BYD285M6C-36, BYD290M6C-36, BYD295M6C-36, BYD300M6C-36, BYD305M6C-36, BYD310M6C-36, BYD315M6C-36</td> </tr> <tr> <td>b) 60 6" mono cells:</td> <td>BYD220M6-30, BYD225M6-30, BYD230M6-30, BYD235M6-30, BYD240M6-30, BYD245M6-30, BYD250M6-30, BYD255M6-30, BYD260M6-30, BYD265M6-30</td> </tr> <tr> <td>b1) 60 6" mono cells:</td> <td>BYD220M6C-30, BYD225M6C-30, BYD230M6C-30, BYD235M6C-30, BYD240M6C-30, BYD245M6C-30, BYD250M6C-30, BYD255M6C-30, BYD260M6C-30, BYD265M6C-30</td> </tr> <tr> <td>c) 54 6" mono cells:</td> <td>BYD195M6-27, BYD200M6-27, BYD205M6-27, BYD210M6-27, BYD215M6-27, BYD220M6-27, BYD225M6-27, BYD230M6-27, BYD235M6-27, 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Prüfbericht Nr. / Test Report No.: 68.260.10.131.08

Projektleiter / Project Engineer: Symbol Zhao

Ort / place: Shenzhen

Stempel und Unterschrift / Seal and signature

Datum / date: 2012-09-13





- m1) 36 6" poly cells: BYD145P6-18, BYD150P6-18
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- o) 54 5" poly cells: BYD120P5-27, BYD125P5-27, BYD130P5-27, BYD135P5-27, BYD140P5-27,
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- p) 36 5" poly cells: BYD080P5-18, BYD085P5-18, BYD090P5-18, BYD095P5-18

Rated Output Power at STC:

- a) & a1) 260 W, 265 W, 270 W, 275 W, 280 W, 285 W, 290 W, 295 W, 300 W, 305 W, 310 W, 315 W
- b) & b1) 220 W, 225 W, 230 W, 235 W, 240 W, 245 W, 250 W, 255 W, 260 W, 265 W
- c) & c1) 195 W, 200 W, 205 W, 210 W, 215 W, 220 W, 225 W, 230 W, 235 W, 240 W
- d) & d1) 175 W, 180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W
- e) & e1) 130 W, 135 W, 140 W, 145 W, 150 W, 155 W, 160 W
- f) 160 W, 165 W, 170 W, 175 W, 180 W, 185 W, 190 W
- g) 120 W, 125 W, 130 W, 135 W, 140 W, 145 W
- h) 80 W, 85 W, 90 W, 95 W
- i) & i1) 240 W, 245 W, 250 W, 255 W, 260 W, 265 W, 270 W, 275 W, 280 W, 285 W, 290 W, 295 W, 300 W, 305 W
- j) & j1) 200 W, 205 W, 210 W, 215 W, 220 W, 225 W, 230 W, 235 W, 240 W, 245 W, 250 W, 255 W
- k) & k1) 180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W, 215 W
- l) & l1) 160 W, 165 W, 170 W, 175 W, 180 W, 185 W, 190 W
- m) & m1) 120 W, 125 W, 130 W, 135 W, 140 W, 145 W, 150 W
- n) 160 W, 165 W, 170 W, 175 W, 180 W, 185 W, 190 W
- o) 120 W, 125 W, 130 W, 135 W, 140 W, 145 W
- p) 80 W, 85 W, 90 W, 95 W

Min. Value of Output Power or Deviation at STC:

N/A

Maximum System Voltage:

1000 V d.c.

Max. over-current protection rating:

f), g), h), n), o), p) 10 A
a), a1), b), b1), c), c1), d), d1), e), e1), i), i1), j), j1), k), k1), l), l1), m), m1) 15 A

Module Dimensions (L x W x H):

- a) & a1) 1956 x 992 x 50 [mm]
- b) & b1) 1640 x 992 x 50 [mm] & 1640 x 992 x 40 [mm]
1650 x 992 x 45 [mm] & 1650 x 992 x 40 [mm]
- c) & c1) 1482 x 992 x 50 [mm] & 1482 x 992 x 40 [mm]
- d) & d1) 1325 x 992 x 50 [mm] & 1325 x 992 x 40 [mm]
- e) & e1) 1482 x 676 x 50 [mm] & 1482 x 676 x 40 [mm]
- f) 1580 x 806 x 35 [mm]
- g) 1199 x 806 x 35 [mm]
- h) 1199 x 552 x 35 [mm]
- i) & i1) 1956 x 992 x 50 [mm]
- j) & j1) 1640 x 992 x 50 [mm] & 1640 x 992 x 40 [mm]
1650 x 992 x 45 [mm] & 1650 x 992 x 40 [mm]
- k) & k1) 1482 x 992 x 50 [mm] & 1482 x 992 x 40 [mm]
- l) & l1) 1325 x 992 x 50 [mm] & 1325 x 992 x 40 [mm]
- m) & m1) 1482 x 676 x 50 [mm] & 1482 x 676 x 40 [mm]
- n) 1580 x 806 x 50 [mm]
- o) 1199 x 806 x 50 [mm]
- p) 1199 x 552 x 50 [mm]

Weight:

- a) & a1) 23.1 kg (approx)
- b) & b1) 19.5 kg (with 50 mm frame), 19.3 kg (with 45 mm frame), 18.9 kg (with 40 mm frame) (approx)
- c) & c1) 18.2 kg (with 50 mm frame), 17.6 kg (with 40 mm frame) (approx)
- d) & d1) 17.5 kg (with 50 mm frame), 16.9 kg (with 40 mm frame) (approx)

Symbol



e) & e1)	13.0 kg (with 50 mm frame), 12.5 kg (with 40 mm frame) (approx)
f)	15.5 kg (approx)
g)	13.0 kg (approx)
h)	9.5 kg (approx)
i) & i1)	23.1 kg (approx)
j) & j1)	19.5 kg (with 50 mm frame), 19.3 kg (with 45 mm frame), 18.9 kg (with 40 mm frame) (approx)
k) & k1)	18.2 kg (with 50 mm frame), 17.6 kg (with 40 mm frame) (approx)
l) & l1)	17.5 kg (with 50 mm frame), 16.9 kg (with 40 mm frame) (approx)
m) & m1)	13.0 kg (with 50 mm frame), 12.5 kg (with 40 mm frame) (approx)
n)	16.5 kg (approx)
o)	13.0 kg (approx)
p)	10.0 kg (approx)

Cell technology:

Monocrystalline Silicon	<input checked="" type="checkbox"/>
Polycrystalline Silicon	<input checked="" type="checkbox"/>
Thin-film (amorphous Silicon)	<input type="checkbox"/>
CIGS	<input type="checkbox"/>
CdTe	<input type="checkbox"/>
Other	<input type="checkbox"/>

Application classes:

Class A:	General access, hazardous voltage, hazardous power applications	<input checked="" type="checkbox"/>
Class B:	Restricted access, hazardous voltage, hazardous power applications	<input type="checkbox"/>
Class C:	Limited voltage, limited power applications	<input type="checkbox"/>

Types of terminations:

Type A: wire of flying lead	<input type="checkbox"/>
Type B: tags, threaded stubs, screws, etc.	<input type="checkbox"/>
Type C: connector	<input checked="" type="checkbox"/>
Junction box	<input checked="" type="checkbox"/>

Protection devices:

By-pass Diode	<input checked="" type="checkbox"/>
Fuse	<input type="checkbox"/>
Other	<input type="checkbox"/>

Fire safety class:

Class A	<input type="checkbox"/>
Class B	<input type="checkbox"/>
Class C	<input type="checkbox"/>

Frame:

Framed	<input checked="" type="checkbox"/>
Frameless	<input type="checkbox"/>

Mechanical load tested:

2400 Pa	<input checked="" type="checkbox"/>
5400 Pa for a), a1), b), b1), c), c1), d), d1), e), e1), i), i1), j), j1), k), k1), l), l1), m), m1) use bolting, clamping or insertion system on long frames	<input checked="" type="checkbox"/>

Module Design - Minimum Distances:

Between cells:	1.5 mm
Between cell and edge of laminate:	16 mm
Between any current carrying part and edge of laminate:	13 mm

Symbol



Materials:

Superstrate	Tempered Glass <input checked="" type="checkbox"/>
	Normal Glass <input type="checkbox"/>
	Other: _____ <input type="checkbox"/>
Encapsulant	EVA <input checked="" type="checkbox"/>
	Other _____ <input type="checkbox"/>
Substrate	TPT <input checked="" type="checkbox"/>
	TPE <input checked="" type="checkbox"/>
	Other: see detail <input checked="" type="checkbox"/>
Frame	Aluminium <input checked="" type="checkbox"/>
	Other: _____ <input type="checkbox"/>

Supplementary information:

M6 serial model a), b), c), d), e)	Combination	
Solar cell	BYD / BYD 156M-3 busbar	
Superstrate	CSG / Tempered glass Xinyi / XYG AR-PM	CSG / Tempered glass Xinyi / XYG AR-PM
Substrate	Fa. SFC / TPE-34 Coverne S.p.a / DyMat PYE Taiflex Solmate / VTPE1	TOYO Aluminium K.K. / FPL-FAW-T250-W50
Encapsulant	Ruiyang / REVAX-R767	Ruiyang / REVAX-R767
Junction box	Renhe / PV-RH701, PV-RH701L, GF20 Tyco Electronics / 0-1971482-1, 0-1971482-2, 0-1971377-1 Ningbo Free Trade Zhonghuan / PV-ZH009 Cixi Boneng / PV-BN088	Renhe / PV-RH701, PV-RH701L, GF20
Adhesive for frame	Tonsan / 1527 DOW Corning / PV-8101F Huitian / 906Z	

M6 serial model a1), b1), c1), d1), e1)	Combination	
Solar cell	BYD / BYD 156M-3 busbar	
Superstrate	Xinyi / XYG AR-PM	Xinyi / XYG AR-PM
Substrate	Fa. SFC / TPE-34 Coverne S.p.a / DyMat PYE Taiflex Solmate / VTPE1	TOYO Aluminium K.K. / FPL-FAW-T250-W50
Encapsulant	Ruiyang / REVAX-R767	Ruiyang / REVAX-R767
Junction box	Renhe / PV-RH701, PV-RH701L, GF20 Tyco Electronics / 0-1971482-1, 0-1971482-2, 0-1971377-1 Ningbo Free Trade Zhonghuan / PV-ZH009 Cixi Boneng / PV-BN088	Renhe / PV-RH701, PV-RH701L, GF20
Adhesive for frame	Tonsan / 1527 DOW Corning / PV-8101F Huitian / 906Z	

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M5 serial model f), g), h)	Combination
Solar cell	BYD / BYD 125M
Superstrate	CSG / Tempered glass
Substrate	Taiflex Solmate / BTNTA01025
Encapsulant	Bridgestone / S11
Adhesive for frame	Tonsan / 1527

P6 serial model i), j), k), l), m)	Combination		
Solar cell	BYD / BYD 156P & BYD 156P-3 busbar		
Superstrate	CSG / Tempered glass	CSG / Tempered glass Xinyi / XYG AR-PM	CSG / Tempered glass Xinyi / XYG AR-PM
Substrate	Taiflex Solmate / BTNTA01025	Fa. SFC / TPE-34 Coveme S.p.a / DyMat PYE Taiflex Solmate / VTPE1	TOYO Aluminium K.K. / FPL-FAW-T250-W50
Encapsulant	Bridgestone / S11	Ruiyang / REVAX-R767	
Junction box	Renhe / PV-RH701, PV-RH701L, GF20 Tyco Electronics / 0-1971482-1, 0-1971482-2, 0-1971377-1 Ningbo Free Trade Zhonghuan / PV-ZH009 Cixi Boneng / PV-BN088	Renhe / PV-RH701, PV-RH701L, GF20 Tyco Electronics / 0-1971482-1, 0-1971482-2, 0-1971377-1 Ningbo Free Trade Zhonghuan / PV-ZH009 Cixi Boneng / PV-BN088	Renhe / PV-RH701, PV-RH701L, GF20
Adhesive for frame	Tonsan / 1527 DOW Corning / PV-8101F Huitian / 906Z		

P6 serial model i1), j1), k1), l1), m1)	Combination		
Solar cell	BYD / BYD 156P & BYD 156P-3 busbar		
Superstrate	Xinyi / XYG AR-PM	Xinyi / XYG AR-PM	
Substrate	Fa. SFC / TPE-34 Coveme S.p.a / DyMat PYE Taiflex Solmate / VTPE1	TOYO Aluminium K.K. / FPL-FAW-T250-W50	
Encapsulant	Ruiyang / REVAX-R767		Ruiyang / REVAX-R767
Junction box	Renhe / PV-RH701, PV-RH701L, GF20 Tyco Electronics / 0-1971482-1, 0-1971482-2, 0-1971377-1 Ningbo Free Trade Zhonghuan / PV-ZH009 Cixi Boneng / PV-BN088	Renhe / PV-RH701, PV-RH701L, GF20	
Adhesive for frame	Tonsan / 1527 DOW Corning / PV-8101F Huitian / 906Z		

P5 serial model n), o), p)	Combination
Solar cell	BYD / BYD 125P
Superstrate	CSG / Tempered glass
Substrate	Taiflex Solmate / BTNTA01025
Encapsulant	Bridgestone / S11
Adhesive for frame	Tonsan / 1527

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Product Service

Sicherheitsrelevante Bauteile: (Schalter, Temperaturregler, Heizkörper, Stecker, Fassungen, Leitungen, Kondensatoren, Motoren und sonstige Wicklungen z.B. Transformatoren, Magnetspulen) (Not-Aus Geräte, 2-Handsteuerungen, Verriegelungsschalter, Sicherheits-Lichtschranken, Sicherheitsventile, Programmierbare Steuerungen-SPS, hydraulische Steuerungen, pneumatische Steuerungen)

Safety relevant components: (switch, temperature regulator, heating element, plug, socket, wiring, capacitor, motors and other components with windings e.g. transformers, coils)

(emergency off devices, 2-hand-control-devices, interlock switches, safety light barriers, safety valves, programmable electronic controllers -PLC, hydraulic controllers, pneumatic controllers)

Bauteil /
Kind of component

Hersteller /
Manufacturer

Angaben über Typ, Stromstärke, Leistung, Transformatorspezifikationsnummer, Isolationsklasse /
Information about type, current, power, transformer specification number, insulating class

Prüfzeichen von
Test mark from
(VDE, BSI, UL etc.)

28. Markings as below:
a) Rating label

b) Serial No. code bar



Code rule:

SH 120220 P630 AS68-001

SH----Manufacturer location, shanghai;

120220----Date (YYMMDD) ;

P----P for Poly-Si ; M for Mono-Si;

G----G for the cell dimension of 156*156mm; S for the cell dimension of 125*125mm;

30----the voltage of the modules;

AS68----Engineering Code, for different shifts, materials etc;

001----Number of product components,3 digit sequence 0 to 999 for sequential production starting on each new day of production at 001.

c) Grounding symbol



d) Warning label attached on the cable



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