Exhibit O
Equipment Specification Sheets

First Solar

Series 7 *TR1*.

525-550 Watt Thin Film Solar Module

Series 7 *TR1* modules combine First Solar's thin film technology with a larger form factor and an innovative new back rail mounting system to deliver improved efficiency, enhanced installation velocity, and unmatched lifetime energy performance for utility-scale PV projects.

More Energy per Nameplate Watt

- Superior temperature coefficient, spectral, and shading response
- No power loss from LID or LeTID
- Anti-reflective coated glass enhances energy production

Innovative Module Design

- Optimized back rails enhance installation velocity
- Frameless design improves soiling and snow shedding
- Dual junction box design reduces wire management complexity and cost

Unmatched Quality and Reliability

- End-to-end manufacturing process for globally consistent quality
- Tested and certified to IEC standards and beyond
- Durable glass/glass construction
- Immune to and warranted against power loss from cell cracking
- 30-year Linear Performance Warranty

Industry's Most Eco-efficient PV Solution

- Industry-leading carbon footprint, water footprint and energy payback time
- Globally available PV module recycling services

America's Solar Company

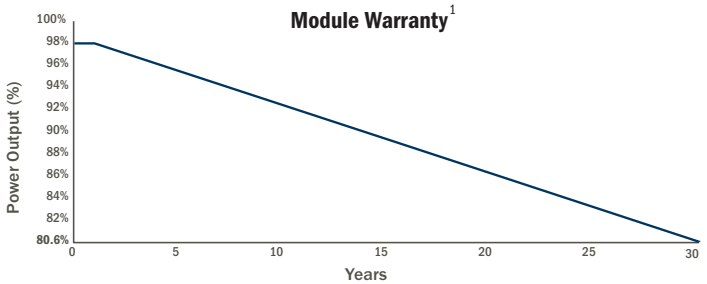
- Designed, responsibly sourced, and manufactured in the USA

19.7%
HIGH BIN EFFICIENCY

30YR
LINEAR PERFORMANCE WARRANTY

98%
WARRANTY START POINT

0.6%
WARRANTED ANNUAL DEGRADATION RATE



Learn more about First Solar and Series 7 *TR1* at firstsolar.com/S7

Series 7 *TR1*.

First Solar

LEADING THE WORLD'S SUSTAINABLE ENERGY FUTURE

Electrical Specifications

MODEL TYPES: FS-7XXXA-*TR1* (XXX = NOMINAL POWER)
RATINGS AT STANDARD TEST CONDITIONS (1000W/m², AM 1.5, 25°C)[2]

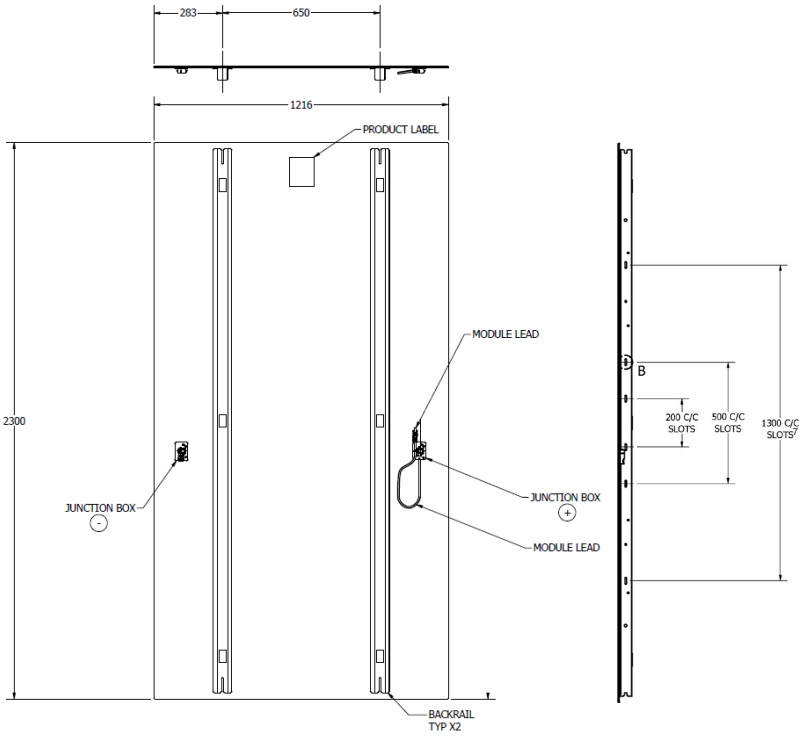
Nominal Power[3] (-0/+5%)	P_{MAX} (W)	525	530	535	540	545	550
Efficiency (%)	%	18.8	19.0	19.1	19.3	19.5	19.7
Cell Efficiency (%)	%	19.7	19.9	20.1	20.3	20.4	20.6
Voltage at P_{MAX}	V_{MAX} (V)	186.0	186.9	187.8	188.7	189.6	190.4
Current at P_{MAX}	I_{MAX} (A)	2.82	2.84	2.85	2.86	2.88	2.89
Open Circuit Voltage	V_{OC} (V)	226.1	226.7	227.2	227.7	228.2	228.8
Short Circuit Current	I_{SC} (A)	3.04	3.05	3.06	3.06	3.07	3.08
Maximum System Voltage	V_{SYS} (V)	1500[5]					
Limiting Reverse Current	I_R (A)	5.0					
Maximum Series Fuse	I_{CF} (A)	5.0					

TEMPERATURE CHARACTERISTICS		
Module Operating Temperature Range	(°C)	-40 to +85
Temperature Coefficient of P_{MAX}	T_K (P_{MAX})	-0.32%/°C [Temperature Range: 25°C to 75°C]
Temperature Coefficient of V_{OC}	T_K (V_{OC})	-0.28%/°C
Temperature Coefficient of I_{SC}	T_K (I_{SC})	+0.04%/°C
Nominal Operating Cell Temperature	(°C)	45

PACKAGING INFORMATION		
Model Type	Modules Per Pack	Packs per 53' Container
FS-7XXXA-TR1	44 / 46	Up to 10

Mechanical Specifications

MECHANICAL DESCRIPTION	
Length	2300mm
Width	1216mm
Area	2.80m²
Module Weight	38.4[7] / 39.7 kg
Leadwire[6]	2.5mm², 650mm (+) & Bulkhead (-)
Connectors	TE Connectivity PV4-S or alternate
Junction Box	IP68 Rated
Bypass Diode	N/A
Cell Type	Thin film CdTe semiconductor, up to 268 cells
Back Rail Material	Galvanized steel
Front Glass	Heat strengthened
Back Glass	Heat strengthened
Encapsulation	Laminate material with edge seal
Frame to Glass Adhesive	Silicone
Load Rating	2400Pa



Certifications & Tests[4]

CERTIFICATIONS AND LISTINGS	EXTENDED DURABILITY TESTS	QUALITY & EHS
IEC 61215:2021 & 61730-1:2016[5],CE	IEC TS 63209-1 Extended Stress Test	ISO 9001:2015
IEC 61701 Salt Mist Corrosion	Long-Term Sequential	ISO 14001:2015
IEC 60068-2-68 Dust and Sand Resistance	Thresher Test	ISO 45001:2018
IEC 62716 Ammonia Corrosion	PID Resistant	ISO 14064-3:2006
UL 61730 1500V Listed		EPEAT Silver Registered

Install in portrait only

1 Limited power output and product warranties subject to warranty terms and conditions
2 All ratings ±10%, unless specified otherwise. Specifications are subject to change
3 Measurement uncertainty applies
4 Testing Certifications/Listings pending
5 IEC 61730-1: 2016 Class II
6 Leadwire length from junction box exit to connector mating surface
7 +/-1300mm mounting location added to product variant

KACO new energy.

blueplanet 125 TL3

Transformerless, three-phase string inverter.

The trendsetter among inverters.

Optimized for solar power plants with 1500 volt modules

Extensive grid management functions

Special properties for extreme climatic conditions

Farsighted technical features for future requirements

Lean commissioning and maintenance via remote services

EN 5001145-02-181031

Technical Data

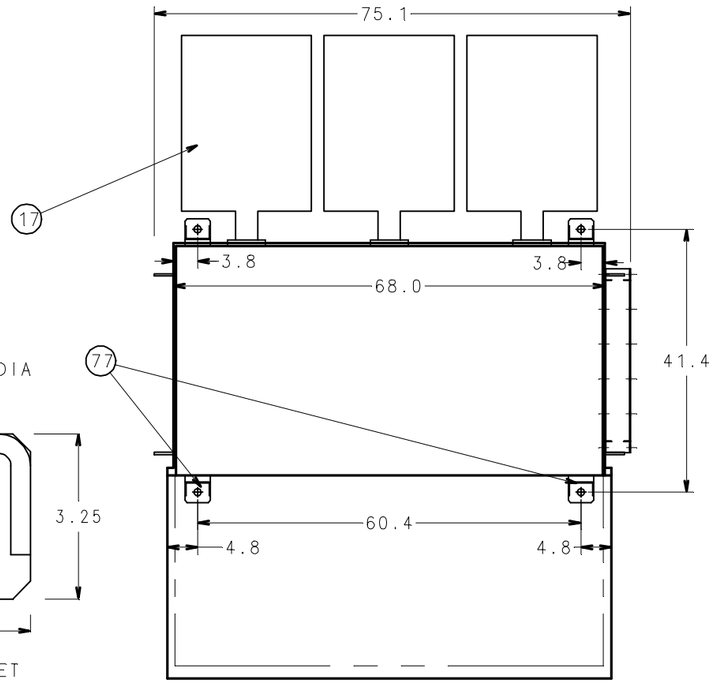
DC input data	125 TL3
Max. recommended PV generator power	187 500 W
MPP range	875 – 1 300 V
Operating range	875 – 1 450 V
Rated DC voltage / start voltage	900 V / 1 000 V
Max. no-load voltage	1 500 V
Max. input current	160 A
Max. short circuit current $I_{sc\ max}$	300 A
Number of MPP tracker	1
Connection per tracker	1 - 2
AC output data	
Rated output	125 000 VA
Max. power	137 500 VA
Line voltage	600 V (3P+PE)
Voltage range (Ph-Ph)	480 – 760 V
Rated frequency (range)	50 Hz / 60 Hz (45 – 65 Hz)
Rated current	3 x 120.3 A
Max. current	3 x 132.3 A
Reactive power / cos phi	0 – 100 % Som / 0.3 ind. – 0.30 cap.
Max. total harmonic distortion (THD)	≤ 3 %
Number of grid phases	3
General data	
Max. efficiency	99.2 %
Europ. efficiency	99.1 %
CEC efficiency	99.0 %
Standby consumption	< 10 W
Circuitry topology	transformerless
Mechanical data	
Display	LEDs
Control units	webserver, supports mobile devices
Interfaces	Ethernet (Modbus TCP, Sunspec) RS485 (Modbus RTU, Sunspec, KACO-protocol) USB, optional: 4-DI, WIFI
Fault signalling relay	potential-free NOC max. 30 V / 1 A
DC connection	cable lug, max. 240 mm² (0.372 in²) Cu or Al
AC connection	cable lug, max. 240 mm² (0.372 in²) Cu or Al
Ambient temperature	-25 °C – +60 °C [1]
Humidity	0 – 100 %
Max. installation elevation (above MSL)	3 000 m
Min. distance from coast	500 m
Cooling	temperature controlled fan
Protection class	IP66 / NEMA 4X
Noise emission	59.2 db (A)
H x W x D	719 x 699 x 450 mm
Weight	78.2 kg
Certifications	
Safety	UL62109-1, UL1741, CSA-C22.2 No. 62109-1, CSA-C22.2 No. 62109-2, CSA-C22.2 No. 107.1 IEC 62109-1/-2, EN 61000-6-1/-2/-3, EN 61000-3-11/-12
Grid connection rule	overview see homepage / download area

[1] Power derating at high ambient temperatures

Versions	S	XL
Number of DC inputs	1 - 2	1 - 2
DC switch	-	✓
DC SPD	Type 1 + 2	Type 1 + 2
AC SPD	○	○
RS485 interface SPD	○	○
Ethernet interface SPD	○	○
PID Set	○	○

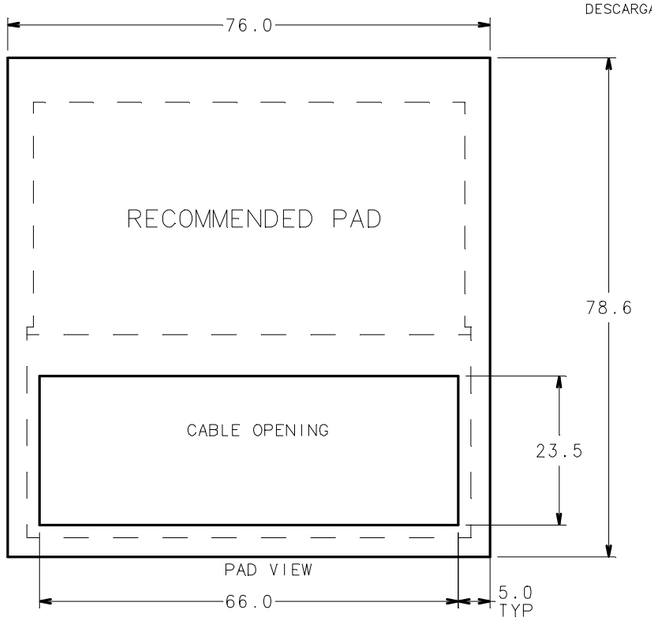
standard = ✓ upgradeable = ○

DOWNLOAD INSTRUCTION BOOKS AT WWW.ABB.COM/TRANSFORMERS
DESCARGAR LIBRO DE INSTRUCCIONES EN WWW.ABB.COM/TRANSFORMERS



SEISMIC BRACKET

TOP VIEW

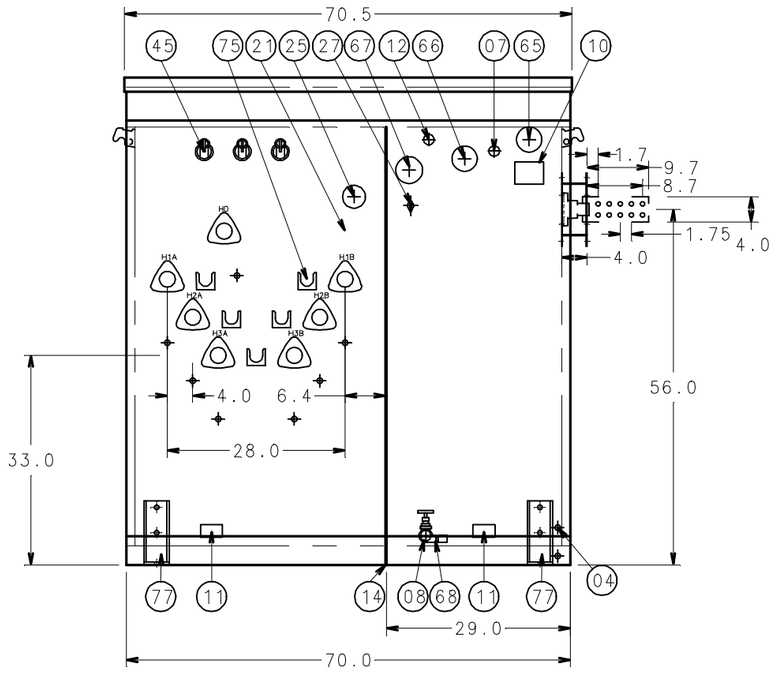


PAD VIEW

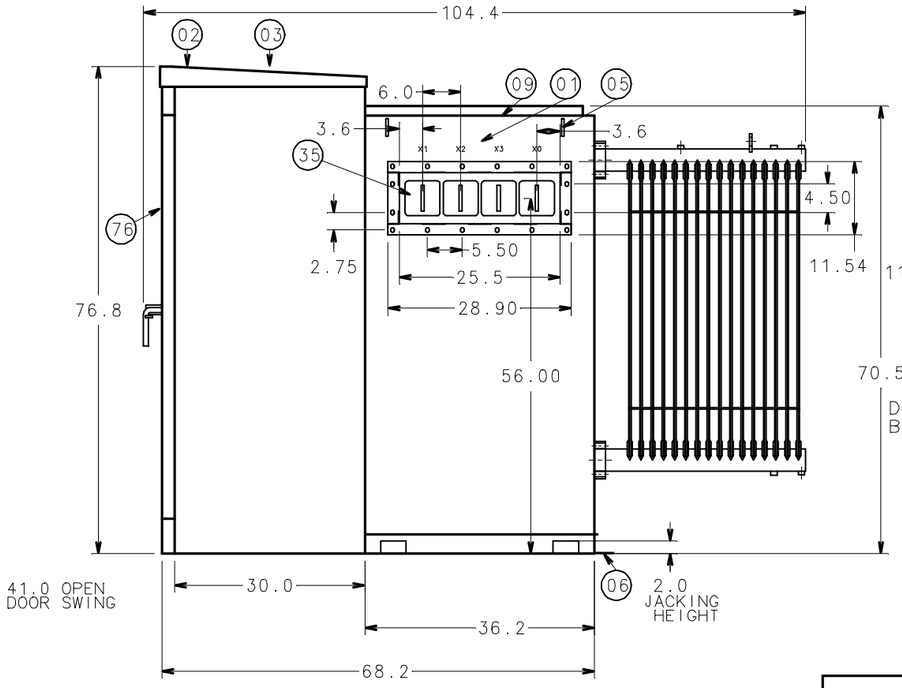
THIS OUTLINE IS FOR ERECTION OR MOUNTING PURPOSES. IT IS NOT TO SCALE AND SHOULD NOT BE REGARDED AS INDICATING THE EXACT DETAILS OF CONSTRUCTION.

01 TANK
02 CABINET BOLTED-ON, REMOVABLE SILLS REMOVABLE STEEL BOTTOM PLATES, 1.25 INCH FLANGE, HINGED LIFT-OFF DOOR, PROVISION FOR PADLOCK, STOP IN OPEN POSITION.
03 WEATHER COVER, REMOVABLE OR HINGED
04 TANK TO BASE GROUND STRAP AND PROVISIONS FOR TANK TO CABINET GROUND
05 LIFTING HOOKS, 4 TOTAL
06 SHIPPING BRACKETS
07 1 INCH FILL PLUG WITH SCHRADER VALVE
08 1 INCH DRAIN PLUG
09 HANDHOLE, 9.5 INCH X 17.5 INCH, BOLTED-ON COVER
10 NAMEPLATE MOUNTED ON TANK WALL
11 GROUND PAD .50-13-TAP, HV AND LV COMPARTMENT
12 PRESSURE RELIEF DEVICE
14 HV/LV BARRIER STEEL-ARC FLASH MITGATION
17 REAR COOLER
21 600 AMP DEAD-BREAK HIGH VOLTAGE BUSHING 600 AMP DEAD-BREAK H0 BUSHING
25 TAP CHANGER
27 300 AMP LBOR TRANSFORMER SWITCH PADLOCKABLE
35 LOW VOLTAGE BUSHING, ANSI SPADES, WITH 10 HOLES.
45 DRAWOUT FUSEHOLDERS
65 PRESSURE VACUUM GAUGE WITH CONTACT
66 OIL LEVEL GAUGE WITH CONTACT
67 THERMOMETER WITH CONTACT
68 DRAIN VALVE WITH SAMPLER
75 PARKING STAND
76 EXTERNAL NAMEPLATE ON LV DOOR
77 SEISMIC BRACKET

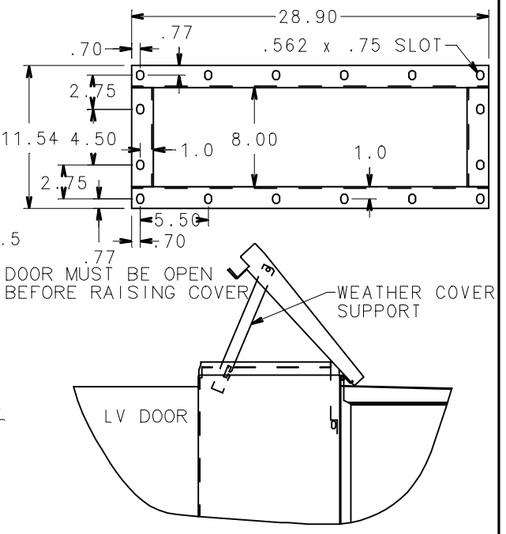
** COLOR ANSI 70 GRAY
** NITROGEN BLANKET
** UL APPROVED
** ELBOW ARRESTER 18 KV, 15.30 MCOV, 15 KV CLASS
** PARALLEL INTERNAL PARTIAL RANGE FUSE 17.2 KV 150A
** GAUGES ATTACHED TO TERMINAL BLOCKS ATTACHED TO HL BARRIER
** LV THROAT BONDED TO TANK WITH COPPER GROUND STRAP



FRONT VIEW
SHOWN WITHOUT DOORS



RIGHT VIEW



REV DATA

02 REMOVED EXTERNAL DRAIN LEH 072219
03 ADDED DIMENSIONS, CUST REQUEST LEH 072419
04 ADDED REVISIONS PER CUST REQUEST S.FLUEGEL 072919

ABB INC.						REV NO 04
TITLE OL3PPADMNT	DEF XXX	FIN XX	U/M XX	NOTE XX		
DES 3PH OUTLINE					USER USSCFL	
DIMENSIONS IN INCHES-SCALE.1	CADAM 209990211NBPNCLKT04,1					
DFTM L,HOOD 070919	APPD XXXXX	MMDDYY	J801CLKT			
D SPEC XXXXXX	APPD					
ENG. REF XXXXXX	LAYOUT MODEL ID ,					
ENGINEERING DEPT.	JEFFERSON CITY, MO.	USA				