

DIMENSIONS OF PV MODULE(mm)

I-V CURVES OF PV MODULE(545 W)

P-V CURVES OF PV MODULE(545W)

ELECTRICAL DATA (STC)

Peak Power Watts (P _{max})	530	535	540	545	550	555
Power Tolerance (P _{max}) (W)	0 ± 1%					
Maximum Power Voltage (V _{mp})	30.8	31.0	31.2	31.4	31.6	31.8
Maximum Power Current (I _{mp})	17.45	17.28	17.33	17.37	17.40	17.45
Open-Circuit Voltage (V _{oc})	37.1	37.3	37.5	37.7	37.9	38.1
Short-Circuit Current (I _{sc})	18.31	18.36	18.41	18.47	18.52	18.56
Module Efficiency η (%)	20.3	20.5	20.7	20.9	21.0	21.2

MECHANICAL DATA

Cell Type	Monocrystalline
No. of Cells	120 cells
Module Dimensions	2384 x 1095 x 35 mm (93.85 x 43.11 x 1.38 inches)
Weight	28.5 kg (63.1 lb)
Encapsulant material	EVA/POE
Backsheet	White
Frame	35mm x 38 inches Anodized Aluminium Alloy
J-Box	IP65 Rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.056 inches²), Forked, 200/200 mm (L100/L100 inches), Length: 1400/1400 mm (L55/L55 inches)
Connector	MC4 (EVO2 / T54)

ELECTRICAL DATA (NOCT)

Maximum Power (P _{max})	401	405	409	413	417	420
Maximum Power Voltage (V _{mp})	28.6	28.8	29.0	29.2	29.3	29.5
Maximum Power Current (I _{mp})	14.01	14.06	14.10	14.15	14.19	14.23
Open-Circuit Voltage (V _{oc})	35.0	35.1	35.3	35.5	35.7	35.9
Short-Circuit Current (I _{sc})	14.75	14.80	14.84	14.88	14.92	14.96

TEMPERATURE RATINGS

NOCT (Nominal Operating Temperature)	43°C (110°F)
Temperature Coefficient of P _{max}	-0.53%/°C
Temperature Coefficient of V _{oc}	-0.25%/°C
Temperature Coefficient of I _{sc}	0.04%/°C

MAXIMUM RATINGS

Operational Temperature	-40~80°C
Maximum System Voltage	1500V DC (UL)
Maximum DC (SA)	1500V DC (SA)
Max Series Fuse Rating	30A

WARRANTY

12 year Product Workmanship Warranty	Modules per box: 31 pieces
25 year Power Warranty	Modules per 407 container: 620 pieces
1% first year degradation	
0.50% Annual Power Attenuation	

PACKAGING CONFIGURATION

Modules per box: 31 pieces
Modules per 407 container: 620 pieces

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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Version number: TSM_EN_2020_A www.trinasolar.com

Modulo Trina Solar TSM-DEG19C.20 540 Wp

PROVVEDIMENTO DI VIA NELL'AMBITO DEL PROVVEDIMENTO UNICO IN MATERIA AMBIENTALE AI SENSI DELL'ART.27 DEL D.LGS.152/2006

PROGETTO DI UN IMPIANTO FOTOVOLTAICO A TERRA e LINEA DI CONNESSIONE
Potenza Nominale 61,9824 MWp

Provincia di Cagliari - Comuni di Assemini e Uta, z.l. Macchiarreddu loc. "Santadi"

IDENTIFICATORE: TAVPROG012
TITOLO ELABORATO: PARTICOLARI COSTRUTTIVI TRACKERS-PANNELLI
SCALA: varie

PROGETTISTI: Dott. Ing. Daniele Marras, Dott. Ing. Lorenza Vacca

INGEGNERI: ORDINE INGEGNERI PROVINCIA ORISTANO, ORDINE INGEGNERI PROVINCIA CAGLIARI

COMMITTENTE: LETA S.R.L.
VIA ATERNO 108, SAN GIOVANNI TEATINO (CH), 66020, FRAZIONE SAMBUCCO, P.I. 0162000693

DATA: MARZO 2022

FASE DI PROGETTO:
 STUDIO DI FATTIBILITÀ
 PRELIMINARE
 DEFINITIVO
 ESECUTIVO

REVISIONI:

