M12M132SH1W

TOPRAY Solar

o be operated in half of the original current,

es the CTM loss, generating more power.

r temperature, decreases the risk of hot spot

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Qualifications and Certification

TPSh-M12M132SH1W

630-670W

Mechanical Specification

Cell Type	Mono Crystalline 210x105 mm
Numbers of cells	132
Dimension	2384x1303x35mm
Weight	32KG
Front Glass	3.2 mm low iron tempered glass
Frame	Anodized aluminum
Junction Box	IP 67, with 3 bypass diodes
Connector	MC4 comatible
Output Cables	TUV tested,length 450mm,4.0mm^2

Module Series	TPSh-M12M132SH1W				
Maximum Power at STC(Pmax) (W)	630	640	650	660	670
Short Circuit Current(Isc) (A)	18.14	18.21	18.33	18.38	18.48
Open Circuit Voltage(Voc) (V)	44.52	44.92	45.25	45.74	46.11
Maximum Power Current(Impp) (A)	17.03	17.13	17.23	17.29	17.38
Maximum Power Voltage(Vmpp) (V)	37.00	37.37	37.74	38.18	38.56
Module Efficiency	20.28%	20.60%	20.92%	21.25%	21.57%
Power Tolerance	0/+3%	0/+3%	0/+3%	0/+3%	0/+3%

Mechanical drawings (mm)



TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature(NOCT)	44±2°C
Temperature Coefficient of Pmax(λ)	-0.4%/K
Temperature Coefficient of Voc(ł)	-0.37%/K
Temperature Coefficient of Isc(ƙ)	+0.05%/K

PACKING CONFIGURATION

N_aigleglcdmpk_rgml8 1/ naq ncp n_jjcr* 336 naq ncp 2.%FO aml r_glcp

China Headquarter

Tel: 0086 755 86612689 / 86612630

Fax: 0086 755 86612620

Email: sales@topraysolar.com;franklin@topraysolar.com

Address:A-802,Future Plaza,Qiaochengbei Rd., Nanshan, Shenzhen, China

www.topraysolar.com; www.topraysolar.cn