Growatt 2500MTL-S/3000MTL-S/3600MTL-S/ 4200 MTL-S/5000MTL-S/5500MTL-S

Leading - edge Technology

- Double MPPT Tracker, MPPT tracking accuracy more than 99.5%
- Max. Efficiency 97.9%, European Efficiency 97.4%
- Integrated DC switch for added safety protection
- Transformerless design and high power density, offer lighter and more convenient installation
- 5 years standard warranty
- Power factor continuously adjustable
- Flexible communication connection, support RF, WiFi, Ethernet
- Comply with European, Asia-Pacific safety regulations

GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

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Datasheet	Growatt 2500MTL-S	Growatt 3000MTL-S	Growatt 3600MTL-S	Growatt 4200MTL-S	Growatt 5000MTL-S	Growatt 5500MTL-S
Input Data						
Max. recommended PV power (for module STC)	2900W	3500W	4100W	4800W	5300W	5750W
Max. DC voltage	500V	500V	500V	500V	500V	500V
Start voltage	100V	100V	100V	100V	100V	100V
PV voltage range	70V-500V	70V-500V	70V-500V	70V-500V	70V-500V	70V-500V
MPP work voltage range/ nominal voltage	80V-500V /360V	80V-500V /360V	80V-500V /360V	80V-500V /360V	80V-500V /360V	80V-500V /360V
Full load dc voltage range	160V-400V	160V-400V	190V-400V	175V-400V	175V-400V	175V-400V
Max. input current of tracker A/ tracker B	10A/10A	10A/10A	10A/10A	15A/15A	15A/15A	15A/15A
Max. input current per string of tracker A/tracker B	10A/10A	10A/10A	10A/10A	15A/15A	15A/15A	15A/15A
Number of independent MPP trackers / strings per MPP tracker	2/1	2/1	2/1	2/1	2/1	2/1
Output (AC)						
Rated AC output power	2500W	3000W	3600W	4200W	4600W	5000W
Max. AC apparent power	2500VA	3000VA	3600VA	4200VA	4600VA	5000VA
Max. output current	12A	14.3A	17.2A	20A	22A	23.8A
AC nominal voltage; range	220V/230V /240V; 180Vac-280Vac	220V/230V/240V; 180Vac - 280Vac	220V/230V/240V; 180Vac - 280Vac	220V,230V,240V; 180Vac - 280Vac	220V,230V,240V; 180Vac - 280Vac	220V,230V,240V; 180Vac - 280Vac
AC grid frequency; range	50Hz,60Hz /±5Hz	50Hz,60Hz /±5Hz	50Hz,60Hz /±5Hz	50Hz,60Hz /±5Hz	50Hz,60Hz /±5Hz	50Hz,60Hz /±5Hz
Phase factor at rated power	1	1	1	1	1	1
Displacement power factor, configurable	0.8leading… 0.8lagging	0.8leading… 0.8lagging	0.8leading… 0.8lagging	0.8leading… 0.8lagging	0.8leading… 0.8lagging	0.8leading… 0.8lagging
THDI	<3%	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Efficiency						
Max.efficiency	97.6%	97.6%	97.9%	97.9%	97.9%	97.9%
Euro weighted efficiency	97%	97%	97. 4%	97. 4%	97. 4%	97. 4%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
Protection Devices						
DC reverse polarity protection	yes	yes	yes	yes	yes	yes
DC switch rating for each MPPT	yes	yes	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes	yes	yes
Output over voltage protection-varistor	yes	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes
Integrated all - pole sensitive leakage current monitoring unit	yes	yes	yes	yes	yes	yes
General Data						
Dimensions (W / H / D) in mm	362*419*138	362*419*138	362*419*138	362*419*138	362*419*138	362*419*185
Weight	14KG	14KG	14KG	14KG	14KG	15KG
Operating temperature range	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Altitude	2000m without derating	2000m without derating	2000m without derating	2000m without derating	2000m without derating	2000m without derating
Self-Consumption night	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
Relative humidity	100%	100%	100%	100%	100%	100%
Features						
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Connector	Connector	Connector	Connector	Connector	Connector
Display	LCD	LCD	LCD	LCD	LCD	LCD
Interfaces: RS232 / RF / Wi-Fi / Ethernet	yes / opt / opt / opt	yes / opt / opt / opt	yes / opt / opt / opt / opt	yes / opt / opt / opt	yes / opt / opt / opt	yes / opt / opt / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt

Certificates and Approvals

CE, IEC62109, G83, VDE0126-1-1, G59, AS4777, AS/NZS 3100, CQC

Société Tunisienne
de l'Electricité et du Gaz

الشركة التونسية
للكهرباء والغاز

FAX

Expéditeur : DDI/DTD

Destinataire : Performance Engineering

De la part de : DPECPD

Adresse : Résidence El Yassmie Bloc A,

Réf. : 1735 **Date :**

El Mourouj 2074, Ben Arous

Nombre de Pages : 02

N° de Fax : 71 367 317

Suite à l'étude des documents joints à votre correspondance (Courrier Boc N°299 du 02/03/2018) et précisément ceux listés ci après, nous vous informons que les onduleurs référenciés dans le tableau suivant peuvent être raccordés au réseau BT de la STEG.

Fabricant	Modèle / Type	Puissance AC (W)
GROWATT	1000-S	1 000
	1500-S	1 600
	2000-S	2 000
	3000-S	3 000
	2500MTL-S	2 500
	3000MTL-S	3 000
	3600MTL-S	3 600
	4200MTL-S	4 200
	5000MTL-S	4 600
	5500MTL-S	5 000
	8000TL3-S	8 000
	9000TL3-S	9 000
	10000TL3-S	10 000
	11000TL3-S	11 000

a) Liste des documents

- Les certificats de conformité à la VDE 0126-1-1 :2013-08 délivrés par Intertek N° 150206038GZU-005 du 15/09/2015, N° 150206040GZU-005 du 30/04/2015, et N° 161118021GZU-004 du 26/10/2017.

Siège Social : 38, Rue Kémal Ataturk, BP. 190 1080 Tunis CEDEX - المقر الإجتماعي 38، نهج كمال اتاتورك ص ب 190 1080 تونس سدكس
Site Web : www.steg.com.tn Courriel : dpsc@steg.com.tn (216) 71 341 311 (216) 71 341 401 / 71 349 981 / 71 330 174

- Les déclarations de conformité aux directives relatives à la compatibilité électromagnétique 2014/30/UE et basse tension 2014/35/UE du 23/02/2017.

b) Remarque:

Toutes les dispositions relatives à la sécurité des personnes et du matériel doivent être prévues lors de la conception et la réalisation de l'installation PV conformément à la norme CEI 61727 : Systèmes photovoltaïques (PV) - Caractéristiques de l'interface de raccordement au réseau).

Veuillez agréer, nos salutations les plus distinguées.

Le chargé de la Direction Technique Distribution/PI

Issameddine BOUJEMAA