



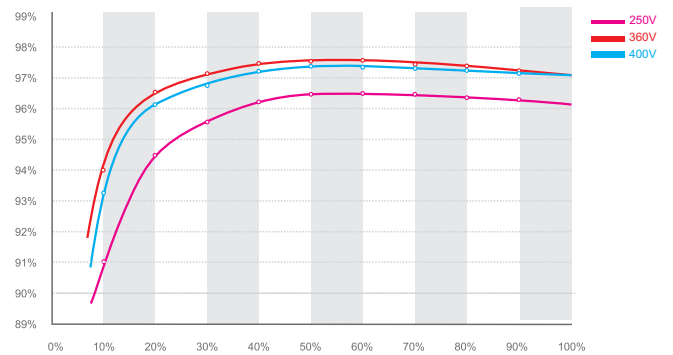
FANLESS TL TECHNOLOGY
Integrated AFCI meets NEC 2011



Leading - edge Technology

- ▶ Maximum efficiency of 97.5% and wide input voltage range
- ▶ Internal DC switch
- ▶ Transformerless GT topology
- ▶ Compact design
- ▶ MTL - String
- ▶ Ethernet / RF technology / WiFi
- ▶ Sound control
- ▶ Easy installation

Growatt 3000-US efficiency



Growatt USA Inc.

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Datasheet	Growatt 1500-US	Growatt 2000-US	Growatt 3000-US
Input Data			
Max. DC power	1800W	2300W	3200W
Max. recommend PV power	2000W	2500W	3500W
Max. DC voltage	450V	500V	500V
Start voltage	150V	150V	150V
DC nominal voltage	360V	360V	360V
PV voltage range	100V - 450V	100V - 500V	100V - 500V
MPP voltage range	120V - 400V	120V - 450V	120V - 450V
Number of independent MPP trackers/strings per MPP tracker	1 / 1	1 / 2	1 / 2
Max. input current of the MPP tracker	12A	14A	17A
Output (AC)			
Rated AC output power	1500W@208Vac 1650W@240Vac	1800W@208Vac 2000W@240Vac	2500W@208Vac 2800W@240Vac
AC nominal voltage; range	Default:240V single phase, optional:208 single phase; 183-228@208V, 211-264V@240V		
AC grid frequency; range	60Hz; 59.3-60.5Hz	60Hz; 59.3-60.5Hz	60Hz; 59.3-60.5Hz
Max. output current	8A / 7.8A	9.7A / 9.4A	15A / 14.2A
Phase shift (cosφ)	1	1	1
THDI	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase
Efficiency			
Max. efficiency	97%	97%	97%
CEC efficiency	96%	96.5%	96.5%
MPPT efficiency	99.5%	99.5%	99.5%
Protection Devices			
DC reverse polarity protection	yes	yes	yes
DC switch for each MPPT	yes	yes	yes
Output over current protection	yes	yes	yes
Output overvoltage protection-varistor	yes	yes	yes
Ground fault monitoring	yes	yes	yes
Grid monitoring	yes	yes	yes
Integrated all-pole sensitive leakage current monitoring unit	yes	yes	yes
AFCI compliant to UL 1699B	yes	yes	yes
General Data			
Dimensions (W / H / D)	360/465/165 mm	360/465/165 mm	360/465/165 mm
Weight	14.6kg	15.1kg	15.9kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Self-Consumption (night)	< 0.5 W	< 0.5 W	< 0.5 W
Topology	Transformerless	Transformerless	Transformerless
Cooling concept	Natural	Natural	Natural
Enclosure	Type 3R	Type 3R	Type 3R
Altitude	2000m without derating	2000m without derating	2000m without derating
Humidity	100%	100%	100%
Features			
DC connection	Screw terminal	Screw terminal	Screw terminal
AC connection	Screw terminal	Screw terminal	Screw terminal
Display	LCD	LCD	LCD
Interfaces: RS232/RS485/RF/Ethernet/WiFi/Zigbee/Cellular	yes/yes/opt/opt/opt/opt/opt	yes/yes/opt/opt/opt/opt/opt	yes/yes/opt/opt/opt/opt/opt
Revenue grade data,ANSI C12.1	opt	opt	opt
Warranty: 10 years / 15 years	yes / opt	yes / opt	yes / opt
Certificates and Approvals			