

# MIN 2500~6000TL-XH

- Battery ready
- Dual MPP trackers
- Max. Efficiency 98.4%
- Rapid shutdown & AFCI optional
- Type II SPD on DC side
- Touch key and OLED display



P O W E R  
- I N G O  
T O M O -  
R R O W O

powering tomorrow  
**Growatt**

[www.ginverter.com](http://www.ginverter.com)

Datasheet	MIN 2500TL-XH	MIN 3000TL-XH	MIN 3600TL-XH	MIN 4200TL-XH	MIN 4600TL-XH	MIN 5000TL-XH	MIN 6000TL-XH
<b>Input Data (PV)</b>							
Max. recommended PV power (for module STC)	3500W	4200W	5150W	5880W	6440W	7000W	8100W
Max. PV voltage	500V				550V		
Start voltage				100V			
Nominal voltage				360V			
MPPT voltage range				70V~500V			
Number of independent MPP trackers / strings per MPP tracker				2/1			
Max. input current per MPP trackers				12.5A			
Max. short-circuit current per MPP trackers				16A/16A			
<b>Input Data (DC)</b>							
Max. Input voltage				480V			
Nominal DC Input voltage				380V			
Max. Input current				10A			
<b>Output Data (AC Grid)</b>							
AC nominal power	2500W	3000W	3600W	4200W	4600W	5000W	6000W
Max. AC apparent power	2500VA	3000VA	3600VA	4200VA	4600VA	5000VA	6000VA
Nominal output voltage				230V/187V~276V			
Nominal output frequency				50Hz/60Hz			
Max. output current	11.3A	13.6A	16A	19A	20.9A	22.7A	27.2A
Adjustable power factor				0.8leading~0.8lagging			
THDI				< 3%			
AC grid connection type				L/N/PE			
<b>Output Data (Backup Power)</b>							
AC nominal power	2500W			3000W			
Max. AC apparent power	2500VA			3680VA			
Nominal output voltage				220V/230V~240V			
Nominal output frequency				50Hz/60Hz			
THDv				< 5%			
<b>Efficiency</b>							
Max. efficiency		98.2%				98.4%	
Euro-eta	97.1%	97.1%	97.2%	97.2%		97.5%	
MPPT efficiency				99.9%			
<b>Protection Devices</b>							
DC reverse-polarity protection				yes			
DC switch				yes			
DC Surge protection				Type II			
AC surge protection-varistor				yes			
AC short-circuit protection				yes			
Ground fault monitoring				yes			
Grid monitoring				yes			
Residual-current monitoring unit				yes			
AFCI protection				opt			
<b>General Data</b>							
Dimensions (W / H / D) in mm				375/350/160			
Weight				10.8KG			
Operating temperature range				- 25 °C ... + 60 °C			
Noise emission (typical)				≤25 dB(A)			
Altitude				4000m (>2000 derating)			
Self-Consumption night				< 10W			
Topology				Transformerless			
Cooling concept				Nature Convection			
Environmental Protection Rating				IP65			
Relative humidity				0%~100%			
<b>Features</b>							
DC connection				H4/MC4(opt)			
AC connection				Connector			
Display				OLED+LED/WIFI+APP			
Interfaces: RS485/USB				yes / yes /			
WIFI/GPRS/4G/RF				opt/opt/opt/opt			
Warranty: 5 / 10 years				yes / opt			
CE, IEC62109, AS/NZS 4777.2, CEI 0-21, VDE-AR-N 4105, VDE 0126-1-1, UTE C 15-712-1, EN 50438, EN 50549, IEC 62116, IEC 61727, G98/G99							