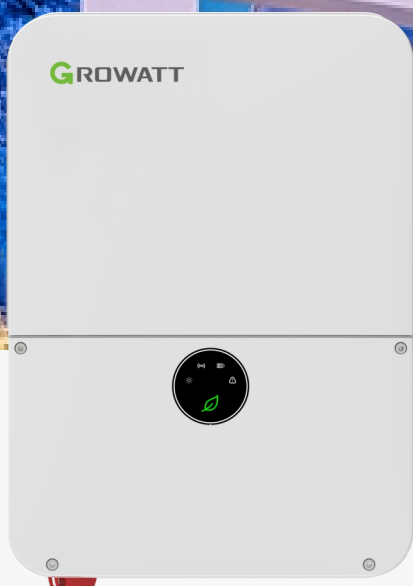


MIN 8200~11400TL-XH-US

- Battery Ready for DC Coupled and AC Coupled systems
- With backup power and dark start operations
- Support RSD and AFCI
- Support multiple energy management modes:
Self-consumption, Zero Export, TOU and Off-grid
- Comply with UL1741SA/SB, CA Rule 21 & HECO



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

GROWATT

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Datasheet	MIN 8200TL-XH-US		MIN 9000TL-XH-US		MIN 10000TL-XH-US		MIN 11400TL-XH-US	
Input Data (PV)								
Max. Recommended PV Power(STC)	16400W		18000W		20000W		22800W	
DC/AC Ratio	2							
Max. DC System Voltage	600V							
Startup Voltage	50V							
Full load Voltage Range	140~500V		150~500V		170~500V		190~500V	
Nominal Voltage	360V							
Operating Voltage Range	Growatt Battery:50~550V/LG Battery:50~450V							
No. of MPP Trackers	4							
No. of PV Strings per MPP Trackers	2							
Max. Input Current per MPP Trackers	16A							
Max. Short-circuit current per MPP trackers	25A							
Input/Output Data (DC)								
Battery Voltage Range	Growatt APX Battery: 380V~550V/ Growatt ARO Battery :360V~550V/LG Battery:360V~450V							
Nominal DC Voltage	400V							
I/O DC Current	23.6A		25.8A		28.6A		32.5A*	
I/O DC Power	8500W		9300W		10300W		11700W*	
Battery Technology	LFP							
Battery Capacity per Module	APX 5kWh / ARO 3.3kWh / LG 10kWh, 16kWh / LG enblock S10: 10.6kWh / LG enblock S14: 14.1kWh / LG enblock S17 17.7kWh							
Scalability	APX 5.0~30.0kWh / ARO 6.6~39.6kWh / LG Prime 10H 10~20kWh 16H 16~32kWh / LG enblock S10: 10.6~21.2kWh S14: 14.1~28.2kWh S17: 17.7~35.4kWh							
Compatible Batterys	Growatt APX HV Battery / Growatt ARO HV Battery / LG 10H Prime / LG 16H Prime / LG enblock S10 / LG enblock S14 / LG enblock S17							
Output Data (AC)								
AC Nominal Power@240V AC	8200W		9000W		10000W		11400W	
AC Nominal Power@208V AC	7100VA		7800VA		8660VA		9880W	
Max. AC Apparent Power	8200VA		9000VA		10000VA		11400VA	
Nominal AC Voltage	208V/240V							
AC Voltage Range @208V AC @240V AC	183V~229V/211V~264V							
AC Grid Frequency	50/60Hz							
AC Grid Frequency Range	45~65Hz							
Max. Output Current	35A		38A		42A		48A	
Max. Output Overcurrent Protection	63A							
Power Factor(@Nominal Power)	>0.99							
Adjustable Power Factor	0.8 leading~0.8 lagging							
THDi	< 3%							
AC Grid Connection Type	L1/L2/N/PE							
Output Data (Backup)								
AC Nominal Power	8200W		9000W		10000W		11400W*	
Max. AC Power Output	12900VA		14200VA		15800VA		18000VA	
Nominal AC Voltage	240V							
Max. Output Current	54A		59A		66A		75A	
THD	2% linear load, 5% non-linear load							
AC Port-V2 inverter	2AC Ports, 1 for ON Grid, 1 for Backup(EPS) compatible with ATS-US for Partial Home Backup							
AC Port-V3 Inverter	1AC Port for 1 ON Grid compatible with SYN200-US for Whole Home Backup							
Efficiency								
Max. Efficiency	98.3%		98.3%		98.3%		98.5%	
CEC Efficiency@208V AC	97.5%		97.5%		97.5%		97.5%	
CEC Efficiency@240V AC	97.5%		97.5%		97.5%		98.0%	
Protection Devices								
DC Reverse-polarity Protection	Yes							
DC Switch	Yes							
DC Surge Protection	Type II							
Insulation Resistance Monitoring	Yes							
AC Surge Protection	Type III							
AC short-circuit Protection	Yes							
Ground Fault Monitoring	Yes							
Grid Monitoring	Yes							
Anti-islanding Protection	Yes							
Residual-current Monitoring Unit	Yes							
AFCI Protection	Yes							
General Data								
RSD Transmitter	Tigo/APs/FUDA							
Dimensions (W / H / D)	15.8/25.2/7.4inch(400/638/187mm)							
Weight	45.2 lbs/20.5kg							
Operating Temperature Range	-13°F~-+140°F (-25 °C ~ +60 °C)de-rating above 113°F							
Altitude	9843ft (3000m)							
Internal Consumption at Night	<1W (for PV inverter)/ <5W (for storage inverter)							
Cooling	Natural Convection							
Electronics Protection Degree	NEMA4X (IP65)							
Relative Humidity	0~95%							
Interfaces								
RS485	Yes							
WIFI/4G Communication	Optional							
RSD compliance	UI1741 PVRSS/NEC2020 690.12							
Warranty: 10 Years	Yes(optional for extended 15 and 20 years warranty)							
Revenue Grade Meter	ANSI C12.20 (meet 0.5% accuracy)							
Conforms to UL STD1741,1741SA,1741SB,1699B,IEEE STD.1547,1547.1,HECO SRD-IEEE-1547.1, Certified to CSA STD C22.2 NO.107.1, UL9540, FCC Part15 Class B								

* 32.5A can only be achieved with APX / LG battery.

* 11700W can only be achieved with APX / LG battery.

* 11400W when using APX / ARO battery, 11400W off-grid output requires both PV and battery supply, and ARO it self has a rated off-grid power of 10kW.

* Support up to 5.5HP motor load

* The above parameters are established in accordance with APX, LG battery

* Due to the characteristics of the LG enblock S10 / LG enblock S14 / LG enblock S17, when the PV is disconnected the inverter of BESS system will disconnect the grid and restart