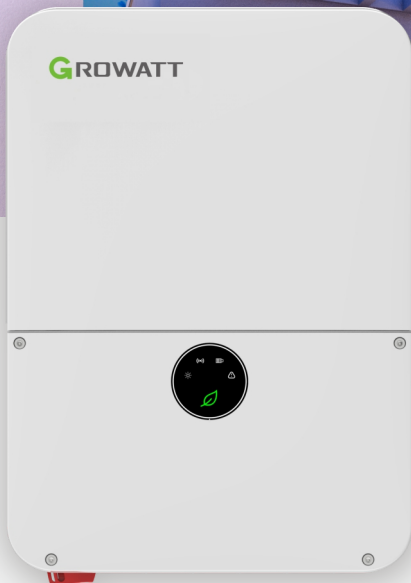


MIN 8200~11400TL-XH-US

- 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 O
T O M O -
R R O W O

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			80V	
Full load voltage range	160-500V	180-500V	200-500V	220-500V
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			13.5A	
Max. Short-circuit current per MPP trackers			16.9A	
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 batteries	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