

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



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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