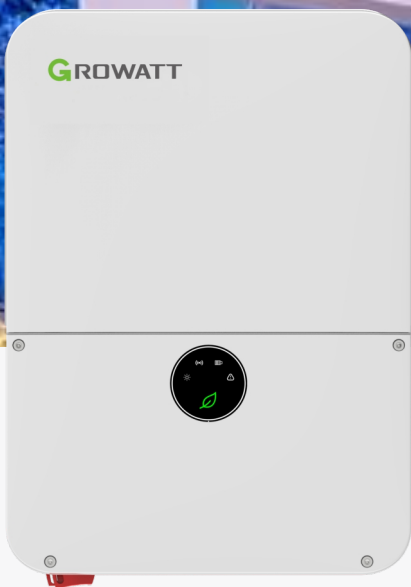


# MIN 8200~11400TL-XH-US

- 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, CA Rule 21 & HECO
- Integrate diesel generator to charge battery for optimal energy management



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

**GROWATT**

<https://us.growatt.com>

Datasheet	MIN 8200TL-XH-US	MIN 9000TL-XH-US	MIN 10000TL-XH-US	MIN 11400TL-XH-US
<b>Input Data (PV)</b>				
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	170-500V	190-500V	210-500V	235-500V
Nominal Voltage			360V	
Operating Voltage Range			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	
<b>Input/Output Data (DC)</b>				
Battery Voltage Range			ARO Battery :360V~550V/LG Battery:350V~450V	
Nominal DC Voltage			400V	
I/O DC Current	24A/24A	27A/27A	30A/30A	34A/34A*
I/O DC Power	8500W	9300W	10300W	11700W
Battery Technology			LFP / NMC	
Battery Capacity per Module			9.9kWh / 10kWh, 16kWh	
Scalability			Up to 4 / Up to 2 in parallel	
Compatible Batteries			Growatt ARO HV battery / LG Prime (Gen3) battery	
<b>Output Data (AC)</b>				
AC Nominal Power@240V AC	8200W	9000W	10000W	11400W
AC Nominal Power@208V AC	7280W	7900W	8735W	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
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	
<b>Output Data (Backup)</b>				
AC Nominal Power	8200W	9000W	10000W	11400W*
Max. AC Power Output	9840VA	10800VA	12000VA	13680VA
Nominal AC Voltage			240V	
Max. Output Current	41A	45A	50A	57A
THD			5%	
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	
<b>Efficiency</b>				
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%
<b>Protection Devices</b>				
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	
<b>General Data</b>				
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%	
<b>Interfaces</b>				
RS485			Yes	
WiFi/4G Communication			Optional	
Warranty: 10 Years			Yes(optional for extended 15 and 20 years warranty)	
Revenue Grade Meter			ANSI C12.20 (meet 0.5% accuracy)	

IEEE1547, CA Rule21, Rule14(HECO Compliant), FCC Part15 Class B, UL1741,UL1741SA,CSA C22.2, UL1699B, UL1741 CRD, UL9540

\* 34A/34A can only be achieved with LG battery, ARO battery is 30A/30A.

\* 11700W can only be achieved with LG battery, ARO battery is 10300W.

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