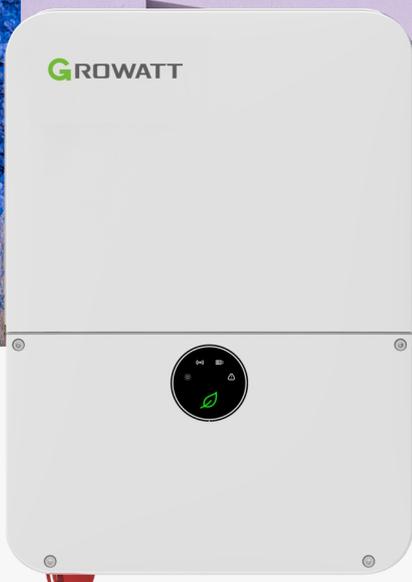


# MIN 3000~7600TL-XH-US

- 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  
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**GROWATT**

<https://us.growatt.com>

Datasheet	MIN 3000TL-XH-US	MIN 3800TL-XH-US	MIN 5000TL-XH-US	MIN 6000TL-XH-US	MIN 7600TL-XH-US
<b>Input Data (PV)</b>					
Max. Recommended PV Power(STC)	6000W	7600W	10000W	12000W	15200W
DC/AC Ratio	2				
Max. DC System Voltage	600V				
Startup Voltage	50V				
Full load voltage range	100-500V	130-500V	170-500V	140-500V	170-500V
Nominal Voltage	360V				
Operating Voltage Range	Growatt Battery:50~550V/LG Battery:50~450V				
No. of MPPT	2	2	2	3	3
No. of PV Strings per MPPT	2/2	2/2	2/2	2/2/2	2/2/2
Max. Input Current per MPPT	16A				
Max. Short-circuit Current per MPPT	25A				
<b>Input/Output Data (Battery)</b>					
I/O Voltage Range	Growatt APX Battery: 380V~550V/ Growatt ARO Battery :360V~550V/LG Battery:360V~450V				
Nominal DC Voltage	400V				
I/O DC Current	8.9A	11.1A	14.4A	17.2A	21.7A
I/O DC Power	3200W	4000W	5200W	6200W	7800W
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 50-30.0kWh / 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				
<b>Output Data (AC)</b>					
AC Nominal Power@240V AC	3000W	3800W	5000W	6000W	7600W
AC Nominal Power@208V AC	2600W	3290W	4330W	5200W	6580W
Max. AC Apparent Power	3000VA	3800VA	5000VA	6000VA	7600VA
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	12.5A	16A	21A	25A	32A
Max. Output Overcurrent Protection	20A	20A	30A	40A	40A
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	3000W	3800W	5000W	6000W	7600W
Max. AC Power Output	4700VA	6000VA	7900VA	9400VA	12000VA
Nominal AC Voltage	240V				
Max. Output Current	20A	25A	33A	40A	50A
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				
<b>Efficiency</b>					
Max. Efficiency	98.0%		98.2%	98.4%	98.4%
CEC Efficiency@240V AC	97.0%	97.0%	97.5%	97.0%	97.5%
CEC Efficiency@208V AC	96.5%	97.0%	97.5%	97.0%	97.0%
<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-circuitS 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>					
RSD Transmitter	Tigo/APs/FUDA				
Dimensions (W / H / D)	15.75/22.41/6.98 inch (400/569/170.5mm)				
Weight	32.3lbs (14.65kg)				
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				
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					

\* 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

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