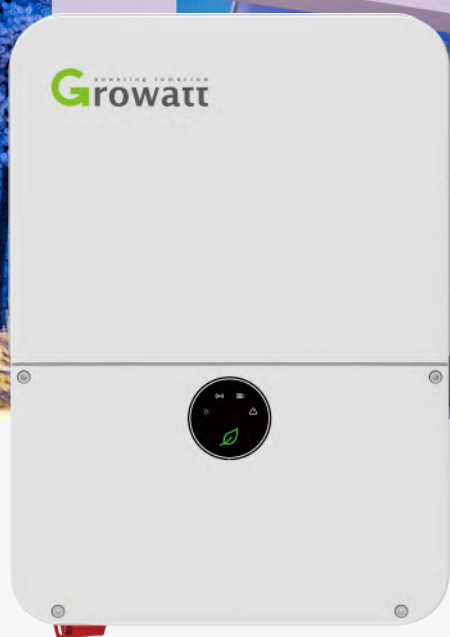


# MIN 3000~7600TL-XH-US

- Battery Ready for DC Coupled and AC coupled system
- Support backup power and dark start operations
- With Rapid shutdown solution & AFCI integrated
- Integrated EMS, support multiple energy management modes: self-consumption, zero export, TOU and off-grid
- UL1741SA, CA Rule 21 & HECO compliant
- Built-in 4G/Wi-Fi Comm. with APP. IoT integrated Cloud and monitoring



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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)	4500W	5700W	7500W	9000W	11400W
DC/AC Ratio			1.5		
Max. DC Voltage			600V		
Startup Voltage			50V		
Nominal Voltage			360V		
MPPT Voltage Range			50~550V		
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			13A		
Max. Short-circuit Current per MPPT			16.3A		
<b>Input/Output Data (Battery)</b>					
I/O Voltage Range			360V~550V		
Nominal DC Voltage			400V		
I/O DC Current			15A		
I/O DC Power			5000W		
Battery Technology			LFP		
Battery Capacity per Module			9.9kWh		
Scalability			Up to 4		
<b>Output Data (AC)</b>					
AC Nominal Power@240V AC	3000W	3800W	5000W	6000W	7600W
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
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	5000W	5000W
Max. AC Power Output	3680VA	4000VA	6000VA	6000VA	6000VA
Nominal AC Voltage			240V		
Max. Output Current	16A	16A	21A	21A	21A
THD			5%		
<b>Efficiency</b>					
Max. Efficiency		98.0%	98.2%	98.4%	98.4%
CEC Efficiency		97.0%	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-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>					
Dimensions (W / H / D)			16.4/21.7/6.7 inch (425/550/170mm)		
Weight			39.6 lbs (18kg)		
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 UI1741, UL1741SA,CSA C22.2, UL1699B, UL1741 CRD					