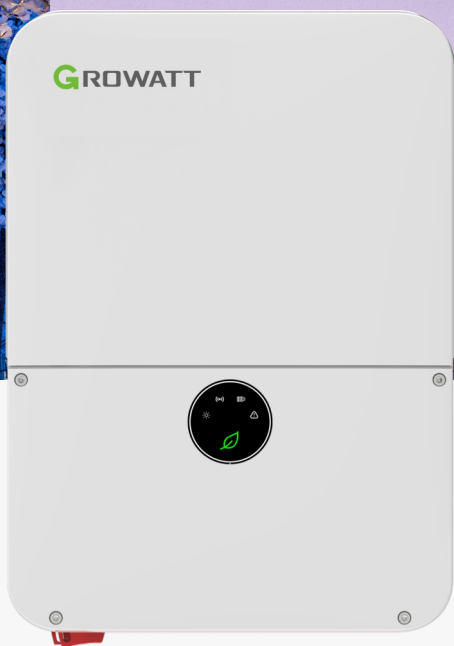


MIN 3000~7600TL-XH-US

- 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, CA Rule 21 & HECO



P O W E R
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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
Input Data (PV)					
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	130-500V	160-500V	210-500V	170-500V	210-500V
Nominal Voltage			360V		
Operating 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			13.5A		
Max. Short-circuit Current per MPPT			16.9A		
Input/Output Data (Battery)					
I/O Voltage Range			360V~550V		
Nominal DC Voltage			400V		
I/O DC Current	9A/9A	11.5A/11.5A	15A/15A	18A/18A	23A/23A
I/O DC Power	3200W	4000W	5200W	6200W	7800W
Battery Technology			LFP		
Battery Capacity per Module			9.9kWh		
Scalability			Up to 4		
Output Data (AC)					
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
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	3000W	3800W	5000W	6000W	7600W
Max. AC Power Output	3600VA	4560VA	6000VA	7200VA	9120VA
Nominal AC Voltage			240V		
Max. Output Current	16A	16.7A	25A	30A	38A
THD			5%		
Efficiency					
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%
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-circuits Protection			Yes		
Ground Fault Monitoring			Yes		
Grid Monitoring			Yes		
Anti-islanding Protection			Yes		
Residual-current Monitoring Unit			Yes		
AFCI Protection			Yes		
General Data					
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%		
Interfaces					
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 Part 15, UL1741, UL1742, UL1743, UL1744, UL1745, UL1746, UL1747, UL1748, UL1749, UL1750, UL1751, UL1752, UL1753, UL1754, UL1755, UL1756, UL1757, UL1758, UL1759, UL1760, UL1761, UL1762, UL1763, UL1764, UL1765, UL1766, UL1767, UL1768, UL1769, UL1770, UL1771, UL1772, UL1773, UL1774, UL1775, UL1776, UL1777, UL1778, UL1779, UL1780, UL1781, UL1782, UL1783, UL1784, UL1785, UL1786, UL1787, UL1788, UL1789, UL1790, UL1791, UL1792, UL1793, UL1794, UL1795, UL1796, UL1797, UL1798, UL1799, UL1800, UL1801, UL1802, UL1803, UL1804, UL1805, UL1806, UL1807, UL1808, UL1809, UL1810, UL1811, UL1812, UL1813, UL1814, UL1815, UL1816, UL1817, UL1818, UL1819, UL1820, UL1821, UL1822, UL1823, UL1824, UL1825, UL1826, UL1827, UL1828, UL1829, UL1830, UL1831, UL1832, UL1833, UL1834, UL1835, UL1836, UL1837, UL1838, UL1839, UL1840, UL1841, UL1842, UL1843, UL1844, UL1845, UL1846, UL1847, UL1848, UL1849, UL1850, UL1851, UL1852, UL1853, UL1854, UL1855, UL1856, UL1857, UL1858, UL1859, UL1860, UL1861, UL1862, UL1863, UL1864, UL1865, UL1866, UL1867, UL1868, UL1869, UL1870, UL1871, UL1872, UL1873, UL1874, UL1875, UL1876, UL1877, UL1878, UL1879, UL1880, UL1881, UL1882, UL1883, UL1884, UL1885, UL1886, UL1887, UL1888, UL1889, UL1890, UL1891, UL1892, UL1893, UL1894, UL1895, UL1896, UL1897, UL1898, UL1899, UL1900, UL1901, UL1902, UL1903, UL1904, UL1905, UL1906, UL1907, UL1908, UL1909, UL1910, UL1911, UL1912, UL1913, UL1914, UL1915, UL1916, UL1917, UL1918, UL1919, UL1920, UL1921, UL1922, UL1923, UL1924, UL1925, UL1926, UL1927, UL1928, UL1929, UL1930, UL1931, UL1932, UL1933, UL1934, UL1935, UL1936, UL1937, UL1938, UL1939, UL1940, UL1941, UL1942, UL1943, UL1944, UL1945, UL1946, UL1947, UL1948, UL1949, UL1950, UL1951, UL1952, UL1953, UL1954, UL1955, UL1956, UL1957, UL1958, UL1959, UL1960, UL1961, UL1962, UL1963, UL1964, UL1965, UL1966, UL1967, UL1968, UL1969, UL1970, UL1971, UL1972, UL1973, UL1974, UL1975, UL1976, UL1977, UL1978, UL1979, UL1980, UL1981, UL1982, UL1983, UL1984, UL1985, UL1986, UL1987, UL1988, UL1989, UL1990, UL1991, UL1992, UL1993, UL1994, UL1995, UL1996, UL1997, UL1998, UL1999, UL2000					