



CPS ECH7.6~12KTL/ US



Model	CPS ECH7.6KTL/US	CPS ECH9.6KTL/US	CPS ECH11.4KTL/US	CPS ECH12KTL/US
Efficiency				
Max. Efficiency (PV to Grid)	97.5%	97.5%	97.5%	97.5%
CEC Efficiency	96.5%	96.5%	96.5%	96.5%
PV				
Rated Input Voltage (V)	410V	410V	410V	410V
Max. Input Voltage (V)	600V	600V	600V	600V
Max. Input Power (kW)	11.4kW	14.4kW	17.1kW	18.0kW
Max. Input Current per MPPT(A)	30A	30A	30A	30A
Max.Short Circuit Current per MPPT(A)	40A	40A	40A	40A
No. of MPPTs	3	3	3	3
No. of Strings per MPPT	2	2	2	2
Start Input Voltage (V)	150V	150V	150V	150V
PV Operating Voltage Range (V)	120-550V	120-550V	120-550V	120-550V
MPPT voltage range of Full load (V)	150-480V	150-480V	150-480V	150-480V
Battery				
Battery Type	Lead-acid or Li-Ion	Lead-acid or Li-Ion	Lead-acid or Li-Ion	Lead-acid or Li-Ion
Battery Voltage Range (V)	40-60V	40-60V	40-60V	40-60V
Max. Charge/Discharge Current (A)	200A/152A	200A/192A	200A/200A	200A/200A
Max. Charge/Discharge Power (kW)	10kW/7.6kW	10kW/9.6kW	10kW/10kW	10kW/10kW
Grid				
Max. Input Current	200.0A	200.0A	200.0A	200.0A
Max. Input Apparent Power	48.0kVA	48.0kVA	48.0kVA	48.0kVA
Max. Output Current	31.7A	40.0A	47.5A	50.0A
Max. Output Apparent Power	7.6kVA	9.6kVA	11.4kVA	12.0kVA
Output Frequency and Voltage	60Hz; 120 / 240Vac	60Hz; 120 / 240Vac	60Hz; 120 / 240Vac	60Hz; 120 / 240 / 208 Vac
Grid Type	Split phase; 2 phase 3 line	Split phase; 2 phase 3 line	Split phase; 2 phase 3 line	Split phase; 2 phase 3 line
Rated Grid Frequency Range	55-65Hz	55-65Hz	55-65Hz	55-65Hz
THDI	<3%(Rated Power)	<3%(Rated Power)	<3%(Rated Power)	<3%(Rated Power)
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)			
EPS				
Max. Output Current (On Grid)	200.0A	200.0A	200.0A	200.0A
Max. Output Apparent Power (On Grid)	48.0kVA	48.0kVA	48.0kVA	48.0kVA
Max. Output Current (Off Grid)	31.7A	40.0A	47.5A	50.0A
Max. Output Apparent Power (Off Grid)	7.6kVA	9.6kVA	11.4kVA	12.0kVA
THDV	<3%(Rated Power)	<3%(Rated Power)	<3%(Rated Power)	<3%(Rated Power)
Switching Time	20ms	20ms	20ms	20ms
Protection				
DC Switch	Support	Support	Support	Support
Anti-islanding Protection	Support	Support	Support	Support
AC Overcurrent Protection	Support	Support	Support	Support
AC Short Circuit Protection	Support	Support	Support	Support
PV String Reverse Protection	Support	Support	Support	Support
Surge Arrester	DC Type II / AC Type II	DC Type II / AC Type II	DC Type II / AC Type II	DC Type II / AC Type II
AFCI	Support	Support	Support	Support
RSD Function	TIGO&APS	TIGO&APS	TIGO&APS	TIGO&APS
General				
Protection Degree	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X
Operating Temperature Range	-13°F to +140°F (- 25°C to +60°C)			
Relative Humidity Range	Up to 100%, condensing	Up to 100%, condensing	Up to 100%, condensing	Up to 100%, condensing
Noise (Typical)	<45 dB	<45 dB	<45 dB	<45 dB
Dimensions (W*H*D)	31.5 x 17.7 x 9.8 in (800*450*250mm)			
Weight	132.3lb (60kg)			
By Pass Function	Yes	Yes	Yes	Yes
GEN Control	Yes	Yes	Yes	Yes
Communication	CAN;RS485 for meter; RS485; Ethernet, WIFI/4G(Optional)			
Certification				
Safety and EMC	CSA107.1-16, UL1741 (excluding UL1741 SA),UL1741 SB, FCC Part 15			
Grid Code and Others	IEEE 1547-2018(HECO), IEEE 1547.1-2020, UL 1998, CEC-300,UL1699B			

*The certificates are for reference only. Please consult the local sales staff for detailed certification