

The Maple Leaf 6500EX-48 offers a hassle-free kickstart for your upcoming off-grid ventures. Featuring the exclusive all-in-one, CSA-certified inverter, this device serves as the central hub for all your off-grid requirements. Just connect your inputs, batteries, and even optional AC sources like the grid or a enerator, and you're all set to embark on your off-grid journey!

With built-in features like a WIFI transmitter for remote monitoring, timer control for AC output and charging, and a genset starter dry contact, the Maple Leaf Inverter offers convenience and control. It also includes a robust MPPT solar charger and utility battery charger, providing you with comprehensive programming options and adjustable charging voltage.

However, it's important to note that this inverter is designed for indoor installation only and offers a wide AC input range for bypass, making it an excellent choice for various setups. Plus, it includes free monitoring software, making it a complete and user-friendly package for your power management needs.

Caution

Electric shock hazard.

Do not connect in reverse or short circuit.

Do not expose to excessive heat.

Do not disassemble.

Do not impact & crush.

Risque de choc électrique.

Ne vous connectez pas en marche arrière ou en court-circuit.

Ne pas exposer à une chaleur excessive.

Ne pas démonter.

N'avez pas d'impact et écraser.

Maple Leaf Off-Grid Inverter

The Maple Leaf Inverter is a cutting-edge power solution that ticks all the right boxes when it comes to compliance and features. With UL1741 and CSA 22.2 under TUV certifications, this inverter ensures top-notch quality and safety, making it a reliable choice for your power needs.

What sets the Maple Leaf Inverter apart is its versatility and customization options. It boasts a high PV input capacity of up to 500V VDC and can deliver a pure sine wave output of up to 6.5KW at 48V, offering a steady and efficient power supply at 120V. Whether you require a single-phase, split-phase, or 3-phase setup, this inverter supports parallel operation of up to 6 units, making it adaptable to a variety of applications.



Meets Canadian code requirements for Safety and Warranty UL1741 compliance TUV certified CSA 22.2 compliance cTUVus

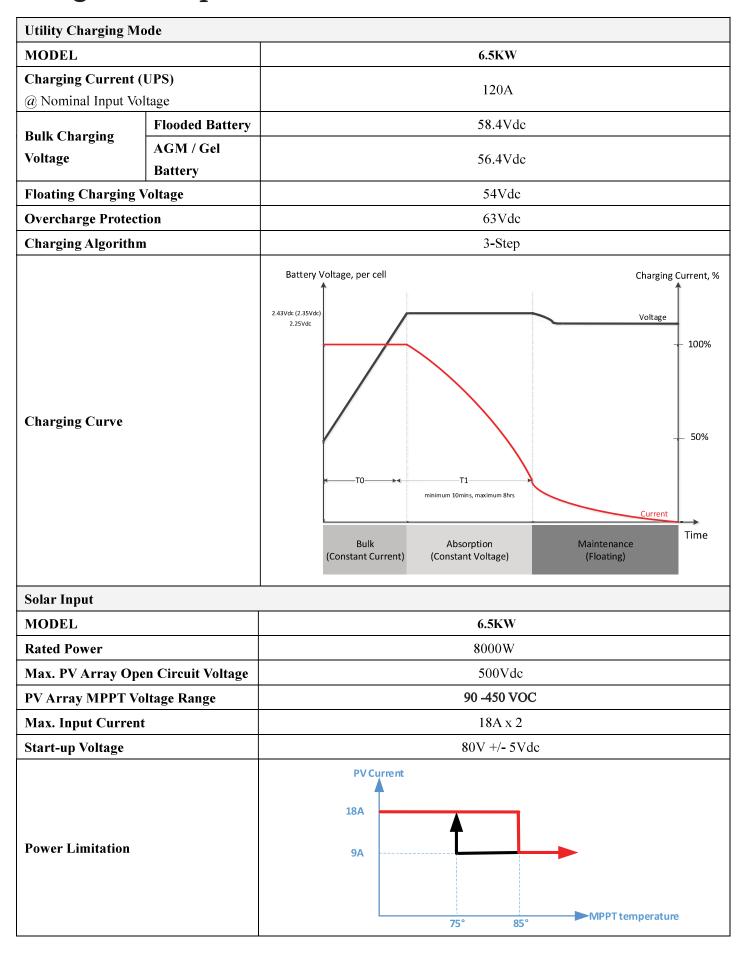


TECH & SPECS

Inverter Mode Specifications

MODEL	6.5KW	
Rated Output Power	6500W	
Output Voltage Waveform	Pure Sine Wave	
Output Voltage Regulation	120Vac±5%	
Output Frequency	60Hz or 50Hz	
Peak Efficiency	91%	
Overload Protection	100ms@≥205% load;5s@≥150% load; 10s@110%~150% load	
Surge Capacity	2* rated power for 5 seconds	
Optional 12V DC Output		
DC Output	$12 \text{ VDC} \pm 7\%, 100 \text{W}$	
High DC Cut-off Voltage	63Vdc	
Low DC Cut-off Voltage	44Vdc	
Nominal DC Input Voltage	48Vdc	
Cold Start Voltage	46.0Vdc	
Low DC Warning Voltage		
@ load < 20%	46.0Vdc	
(a) 20% ≤ load < 50%	42.8Vdc	
@ load ≥ 50%	40.4Vdc	
Low DC Warning Return Voltage		
@ load < 20%	48.0Vdc	
(a) 20% ≤ load < 50%	44.8Vdc	
@ load ≥ 50%	42.4Vdc	
Low DC Cut-off Voltage		
@ load < 20%	44.0Vdc	
(a) 20% ≤ load < 50%	40.8Vdc	
@ load ≥ 50%	38.4Vdc	
High DC Recovery Voltage	61Vdc	
High DC Cut-off Voltage	63Vde	
DC Voltage Accuracy	+/ - 0.3V@ no load	
THDV	<5% for linear load,<10% for non-linear load @ nominal voltage	
DC Offset	≤100mV	

Charge Mode Specifications



Line Mode Specifications

MODEL	6.5KW	
Input Voltage Waveform	Sinusoidal (utility or generator)	
Nominal Input Voltage	120Vac	
Low Loss Voltage	90Vac±7V (UPS)	
	80Vac±7V (Appliances)	
Low Loss Return Voltage	100Vac±7V (UPS);	
	90Vac±7V (Appliances)	
High Loss Voltage	140Vac±7V	
High Loss Return Voltage	135Vac±7V	
Max AC Input Voltage	150Vac	
Max AC Input Current	60A	
Nominal Input Frequency	50Hz / 60Hz (Auto detection)	
Low Loss Frequency	40±1Hz	
Low Loss Return Frequency	42±1Hz	
High Loss Frequency	65±1Hz	
High Loss Return Frequency	63±1Hz	
Output Short Circuit Protection	Line mode: Circuit Breaker (70A)	
	Battery mode: Electronic Circuits	
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)	
Transfer Time	10ms typical (UPS);	
TAMASET TAME	20ms typical (Appliances)	
	Output Power	
Power Limitation	Rated Power 50% Power 80V 110V 140V	

General Specifications

MODEL	6.5KW
Safety Certification	UL
Operating Temperature Range	-10°C to 50°C
Storage temperature	-15°C∼ 60°C
Humidity	5% to 95% Relative Humidity (Non-condensing)
Dimension (D*W*H), mm	147.4x 432.5 x 553.6
Net Weight, kg	18.4

Table 5 Parallel Specifications

Max parallel numbers	6
Circulation Current under No Load Condition	Max 2A
Power Unbalance Ratio	<5% @ 100% Load
Parallel communication	CAN
Transfer time in parallel mode	Max 50ms
Parallel Kit	YES

Note: Parallel feature will be disabled when only PV power is available.



