



# THE CHATEAU

## The ultimate solar & backup power system.

The **Chateau Package** is our largest solar and backup power option, designed to provide power for larger homes and cottages. Featuring a massively powerful 200A rated solar inverter and our PT14 battery, this system can be used for both off grid and grid tied residences. With built-in scalability, the **Chateau Package** can be customized with additional panels and batteries based on your needs.

### Package components

Qty 1 - Sol-Ark 15K

Qty 1 - PT Battery 14

Qty 24 - 340W Canadian Solar Panels



PERFECT FOR **LARGER HOMES AND COTTAGES**



IDEAL FOR **HOME APPLIANCES, ELECTRONICS, PUMPS AND MORE!**



**ADD UP TO 44 PANELS** TO THE SYSTEM TO MEET ALL YOUR POWER NEEDS



### Key features



#### Stackable

Parallel up to 9 Sol-Ark units and up to 24 PT14 batteries to expand your system.



#### Sensors

RSD / Emergency Stop, External CT Sensors, Parallel Comms / Battery Cooms, Auto Gen Start.



#### Smart System

Grid sell, off-grid, meter zero, time of use, & peak shaving.



#### Battery Communication

PT14 battery communicates with the Sol-Ark to ensure the best performance and energy monitoring.



#### Smart Load

Prioritize necessities & run luxuries with less.



#### Gen Breaker

Up to 48kW grid or generator input.



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### Contact us



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## Sol-Ark 15K Specifications.

<b>Solar Output Power</b>	19,500W	<b>Max Allowed PV Power</b>	19,500W
<b>Max PV Power Delivered to Battery &amp; AC Outputs</b>	15,000W	<b>Max DC Voltage</b>	500V @ 26A
<b>MPPT Voltage Range</b>	150-425V	<b>Starting Voltage</b>	125V
<b>Number of MPPT</b>	3	<b>Max Solar Strings per MPPT</b>	2
<b>Max DC Current per MPPT (Self Limiting)</b>	26A	<b>Max AC Coupled Input (Micro/String Inverters)</b>	19,200W
<b>AC Output Power</b>	15kW On-Grid & Off-Grid	<b>Connections</b>	120/240/208V split phase
<b>Continuous AC Power With PV</b>	15,000W 62.5A-L (240V)	<b>Continuous AC Power From Batteries</b>	12,000W 50A-L (240V)
<b>Total Harmonic Distortion (THD)</b>	≤ 3%	<b>Surge AC Power 10sec</b>	24,000VA L-L (240V)
<b>Fault Current 5sec</b>	94A w/ PV   75A w/o PV	<b>Surge AC Power 100ms</b>	30,000VA L-L (240V)
<b>Fault Current 100ms</b>	120A	<b>Parallel Stacking</b>	Yes - Up to 12
<b>Frequency</b>	60/50Hz	<b>Continuous AC Power With Grid or Generator</b>	48,000W 200A L-L (240V) 24,000W 200A L-N (120V)
<b>CEC Efficiency</b>	96.5% (Peak 97.5%)	<b>Idle Consumption Typical—No Load</b>	90W
<b>Sell Back Power Modes</b>	Limited to Household/Fully Grid-Tied	<b>Design (DC to AC)</b>	Transformerless DC
<b>Response Time (Grid-Tied to Off-Grid)</b>	5ms	<b>Power Factor</b>	+/- 0.9 - 1.0
<b>Dimensions</b>	80.7cm x 46.4cm x 27.6cm [31.8in x 18.3in x 10.9in]	<b>Weight</b>	61.2 kg [135 lbs]
<b>Enclosure</b>	IP65 / NEMA 3R	<b>Ambient Temperature</b>	-40°C to 60°C [-40°F to 140°F] Derating
<b>Wi-Fi &amp; LAN Communication</b>	Included	<b>Installation Style</b>	Wall-Mounted

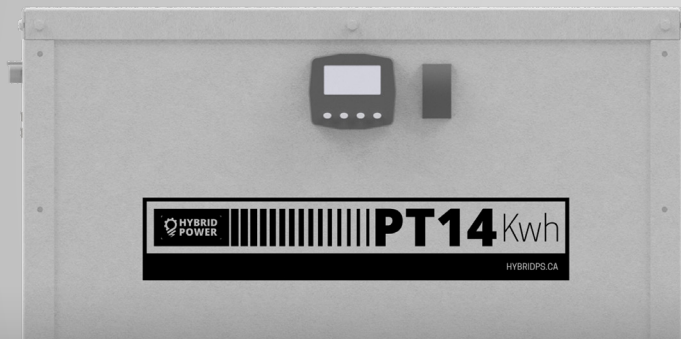
### Standard Warranty (Verified by Halt Testing)

10 Years

### Protection & Certifications

Electronics Certified Safety by SGS Labs to NEC & UL Specs - NEC 690.4B & NEC 705.4/6

Grid Sell Back — UL1741-2010/2018, IEEE1547a -2003/2014, FCC 15 Class B, UL1741SB, CA Rule 21, HECO Rule 14H



## PT14 Battery Specifications.

<b>Chemistry</b>	LiFePO4	<b>Min Voltage</b>	44V
<b>Nominal Voltage</b>	51.2VDC	<b>Max Voltage</b>	56VDC
<b>Energy Capacity</b>	14kWh	<b>Operational Temperature</b>	-30°C to 45°C [-22°F to 113°F]
<b>Battery Heating Operational Temperature</b>	-30°C to 10°C [-22°F to 50°F]	<b>Maximum Continuous Discharge Amperage</b>	280A
<b>Maximum Continuous Charge Current</b>	280 A (140 A recommended)	<b>Weight</b>	90.7 kg [200 lbs]
<b>Dimensions</b>	39cm x 13.3cm x 61cm [15.5in x 13.3in x 24in]	<b>Circuit Breaker Amperage</b>	300A
<b>Enclosure Material</b>	Aluminum	<b>Communication</b>	CANBUS
<b>Maximum Batteries in Parallel</b>	24	<b>Certifications (battery)</b>	UL1973 (Pending) UN38.3 CSA (SPE-1000) Inspected UL9540A

### Cycles

6700 cycles

(charging CC/CV @0.5C & discharging CC @0.5C, 100% DOD, 25°C +/-2°C 80% of rated capacity),

8500 cycles

(charging CC/CV @0.5C & discharging CC @0.5C, 100% DOD, 25°C +/-2°C 70% of rated capacity),

10,000 cycles

(charging CC/CV @0.3C & discharging CC @0.3C, 70 DOD, 25°C +/-2°C 70% of rated capacity)

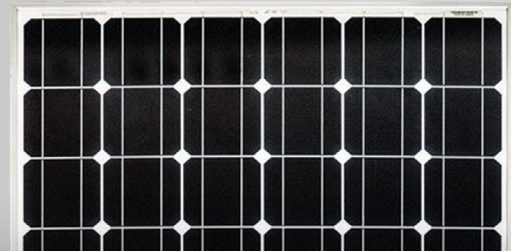
### With

\*4 Caster Wheels

\*\* Temporary rope handles provided for installation



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# 340W Canadian Solar Panel Specifications.

## Electrical Data | STC\*

<b>Nominal Max. Power (Pmax)</b>	340W
<b>Opt. Operating Voltage (Vmp)</b>	37.9V
<b>Opt. Operating Current (Imp)</b>	8.97A
<b>Open Circuit Voltage (Voc)</b>	46.2V
<b>Module Efficiency</b>	17.49%
<b>Operating Temperature</b>	40°C to 85°C [-40°F to 185°F]
<b>Max. System Voltage</b>	1500V (IEC) or 1500V (UL)
<b>Module Fire Performance</b>	TYPE 1 (UL 1703) or CLASS C (IEC 61730)
<b>Max. Series Fuse Rating</b>	15A
<b>Application Classification</b>	Class A
<b>Power Tolerance</b>	0 ~ + 5W

\* Under Standard Test Conditions (STC) of irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

## Electrical Data | NOCT\*

<b>Nominal Max. Power (Pmax)</b>	245W
<b>Opt. Operating Voltage (Vmp)</b>	34.6V
<b>Opt. Operating Current (Imp)</b>	7.10A
<b>Open Circuit Voltage (Voc)</b>	42.4V
<b>Short Circuit Current (Isc)</b>	7.67A

\* Under Nominal Operating Cell Temperature (NOCT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

## Mechanical Data

<b>Cell Type</b>	Mono-crystalline, 6 inch
<b>Cell Arrangement</b>	72 (6 x 12)
<b>Dimensions</b>	196 cm x 99.2 cm x 4 cm [77.2in x 39.1in x 1.57in]
<b>Weight</b>	22.4 kg (49.4 lbs)
<b>Front Cover</b>	3.2 mm tempered glass
<b>Frame Material</b>	Anodized aluminium alloy
<b>J-Box</b>	IP67, 3 diodes
<b>Cable</b>	PV1500DC-F1 4 mm <sup>2</sup> (IEC) & 12 AWG 2000 V (UL), 1160 mm (45.7 in)
<b>Connector</b>	T4 series or PV2 series

## Temperature Characteristics

<b>Temperature Coefficient (Pmax)</b>	-0.41 % / °C/F
<b>Temperature Coefficient (Voc)</b>	-0.31 % / °C/F
<b>Temperature Coefficient (Isc)</b>	0.053 % / °C/F
<b>Nominal Operating Cell Temperature</b>	45±2 °C/F

## Performance At Low Irradiance

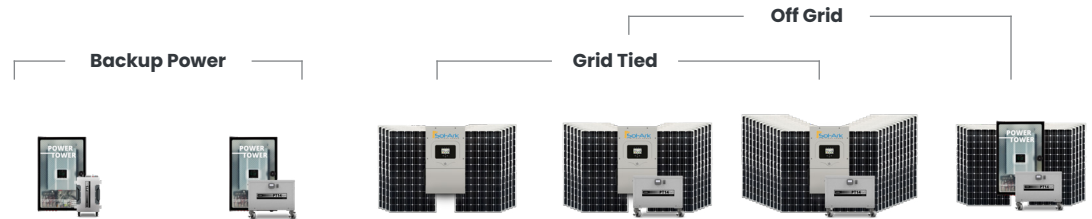
Outstanding performance at low irradiance, average relative efficiency of 96.5 % from an irradiance of 1000 W/m<sup>2</sup> to 200 W/m<sup>2</sup> (AM 1.5, 25°C).






The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to on-going innovation, research and product enhancement, Canadian Solar Inc. reserves the right to make any adjustment

to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

Caution: For professional use only. The installation and handling of PV modules requires professional skills and should only be performed by qualified professionals. Please read the safety and installation instructions before using the modules.

# Compare our solar & backup power packages



	Frontier	Defender	Starter	Cottager	Chateau	Ranger
<b>Power</b>	6,000W	6,000W	12,000W	12,000W	15,000W	6,000W
<b>Surge Power</b>	18,000W	18,000W	25,000W	25,000W	30,000W	18,000W
<b>Output Voltage</b>	120VAC	120VAC	120 - 208 - 240V AC	120 - 208 - 240V AC	120 - 208 - 240V AC	120VAC
<b>Solar Charging Power</b>	3,500W	3,500W	12,000W	12,000W	15,000W	3,500W
<b>Outdoor Rated</b>	No	No	Yes (Inverter only)	Yes (Inverter only)	Yes (Inverter only)	No
<b>Temperature Rating</b>	-30°C to 45 °C [-22°F to 113 °F]					
<b>Total Energy</b>	5kWh	14kWh	-	14kWh	14kWh	14kWh
<b>Number of Solar Panels</b>	-	-	9	12	24	8
<b>Included Solar Panel Power</b>	-	-	3,060W	4,080W	8,160W	2,720W
<b>Package Components</b>	(1) Power Tower (1) PT5 Battery	(1) Power Tower (1) PT14 Battery	(1) Solark 12K (9) 340W Canadian Solar Panel	(1) Solark 12K (1) PT14 Battery (12) 340W Canadian Solar Panel	(1) Solark 15K (1) PT14 Battery (24) 340W Canadian Solar Panel	(1) Power Tower (1) PT14 Battery (8) 340W Canadian Solar Panel
<b>Perfect For</b>	 Back up power for 10 - 50 hours		 Avg. Monthly Energy Usage: 367kWh** Base package will offset some energy costs and can be scaled to offset full energy costs.	 Avg. Monthly Energy Usage: 490kWh** Base package will power all electrical appliances and devices with the exception of electric heat/air conditioning.	 Avg. Monthly Energy Usage: 980kWh** Base package will power all electric appliances and devices with limited load management. Includes air conditioning for grid-tied, excludes electric heating for off-grid.	 Avg. Monthly Energy Usage: 326kWh* Will power most small appliances and electrical basics.

\*Based on Canadian figures  
 \*\*Can be scaled to a maximum of 1,440kWh



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