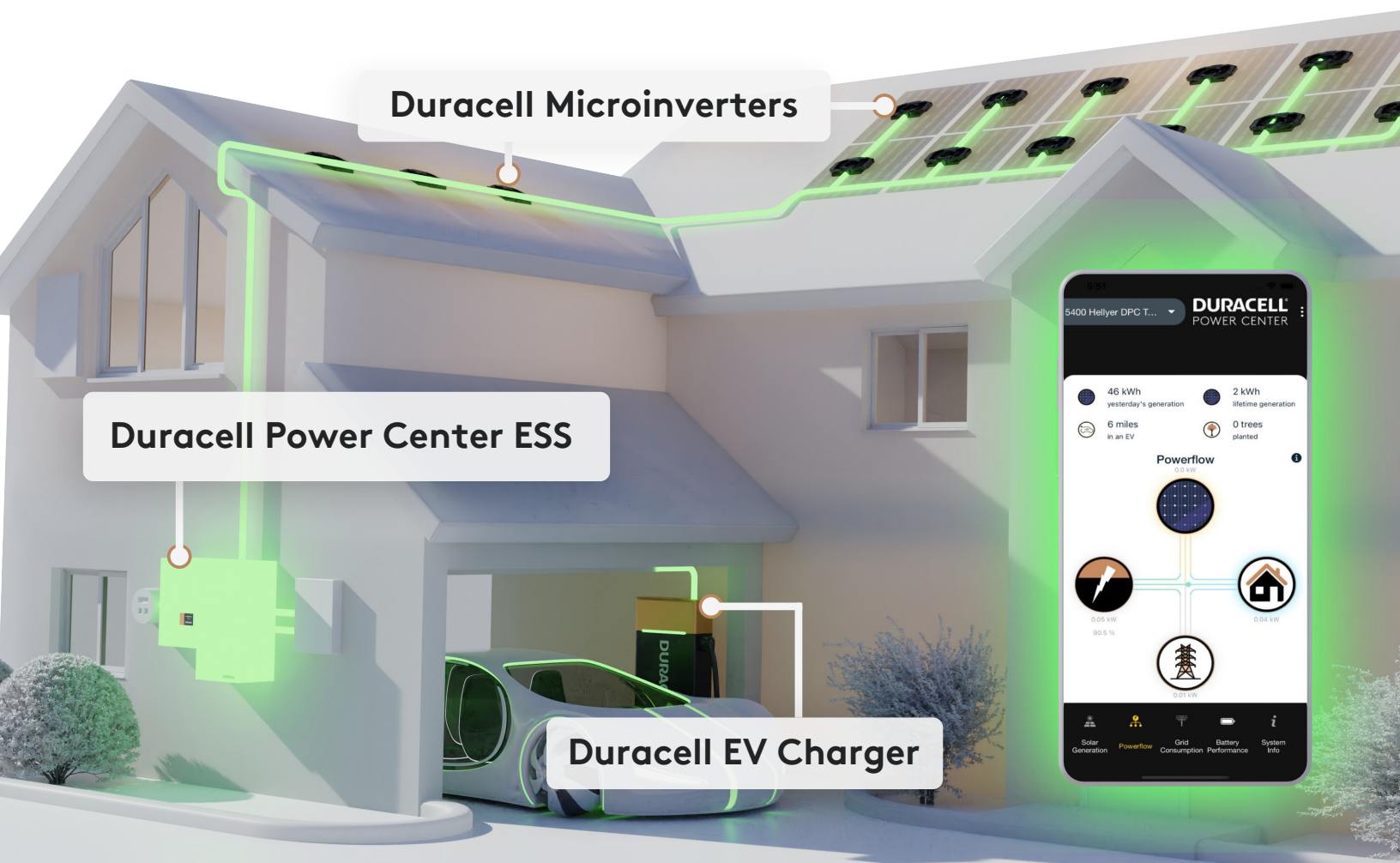


**DURACELL**<sup>®</sup>  
POWER CENTER

# DURACELL<sup>®</sup>

## HOME ECOSYSTEM



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## DURACELL Power Center Solar + Storage solutions from a trusted name in power

Decades of experience in **home energy solutions design, manufacturing, sales and marketing.**

**Partnership with Duracell** to introduce Duracell Home Ecosystem products in the North American market.

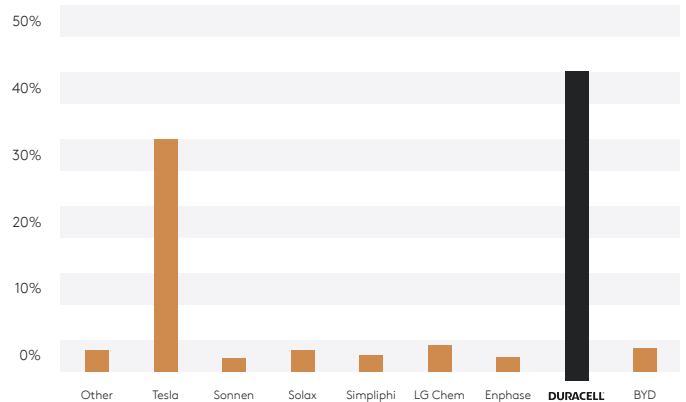
**Certified Partner Program** with installation videos, resources and custom marketing programs to drive growth.

**Significant investment** in manufacturing, technology and supply chain allow us to meet growing consumer demand.

Duracell brand brings a long history of **quality, reliability and innovation.**

## Consumers Want Duracell More Than Any Other Brand

Which of the following brands would you mostly likely choose if you were to purchase a Home Energy Storage System today?



**“Duracell sees tremendous opportunity to create effective green power management solutions for the home. Ultimately allowing the consumer to manage, store, and control all aspects of power within their home.”**

**Bobby Mendez**  
President, Duracell North America

## Home Energy App

- Monitor Duracell Home Ecosystem microinverters, energy storage system, and EV charger performance in real-time from any smartphone.
- View energy usage, production, and storage.
- Set time-of-use preferences to maximize savings.
- Control battery emergency reserve to prepare for protection against power outages.



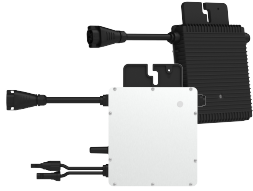
## EV Charger

- Level 2 EV Charger.
- Up to 19.2 kW power output.
- Smart charging and smart management to optimize energy usage and maximize savings.
- Meets newest ISO 15118 standard for smart charging and management, providing eligibility to participate in utility programs.
- Easy and flexible network connectivity with either wifi or ethernet for Duracell Home Ecosystem App management.
- Software upgradable for future bi-directional charging.



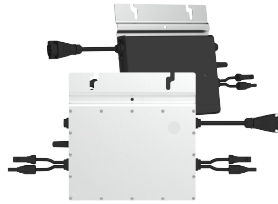
## Microinverters

### Single



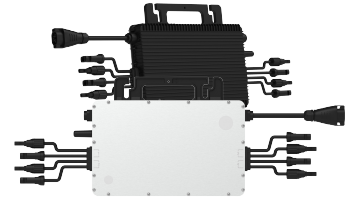
**D350-M1**  
# PV module input: 1  
Output Power: 350 W  
Module input: 470+ W

### Dual



**D700-M2**  
# PV input: 2  
Output Power: 700 W  
Module input: 470 + W

### Quad



**D1500-M4**  
PV input: 4  
Output Power: 1500 W  
Module input: 505+ W

Duracell Home Ecosystem microinverters support fast, easy, and flexible installation with the highest power output yield per PV module.

AC trunk cable format allows any combination of single, dual, and quad microinverters to optimize even the most complex rooftop installations, up to 16 modules per branch.

Fast and efficient commissioning process can be completed remotely. Simple termination to standard junction box, main panel, or sub panel. No specialized combiner box required.

Compliant with U.S. NEC-2017 & NEC-2020 690.12 rapid shutdown and CA Rule 21. High reliability with NEMA 6 enclosure, 6000V surge protection



## Microwinverters

### Technical Data Solar PV Microinverters D350-M1 / D700-M2 / D1500-M4

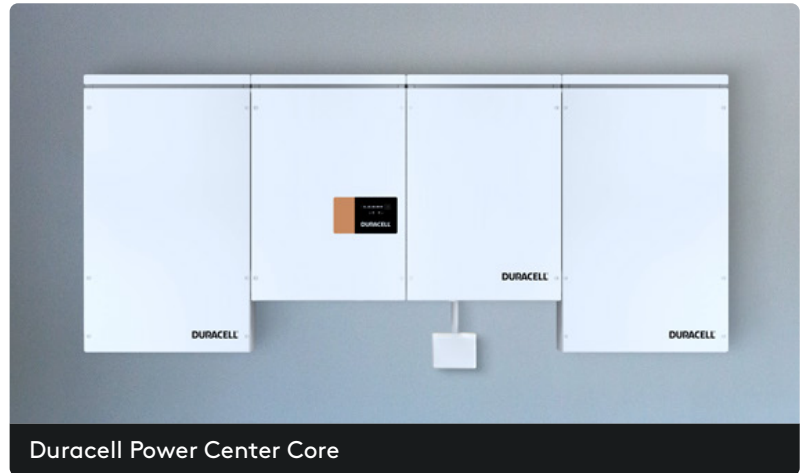
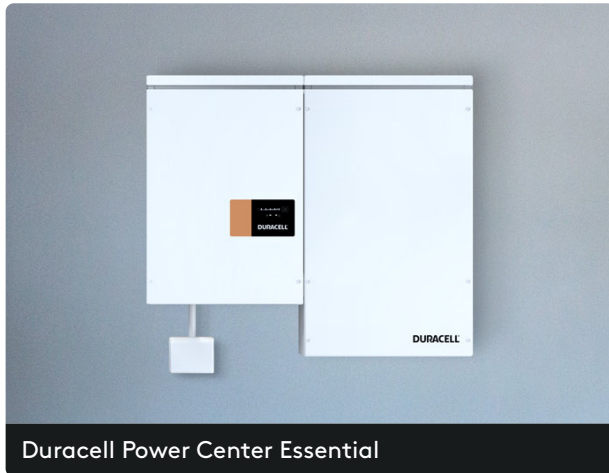
| Model  | D350-M1  |         | D700-M2        |         | D1500-M4       |         |
|--|--|---------|----------------|---------|----------------|---------|
| <b>Input Data (DC)</b>                         |  |         |                |         |                |         |
| Number of PV inputs                            | 1  |         | 2              |         | 4              |         |
| Module power range, typical (W)                | 280 to 470+  |         | 280 to 470+    |         | 300 to 505+    |         |
| Maximum input voltage (V)                      |  |         | 60             |         |                |         |
| MPPT voltage range (V)                         |  |         | 16-60          |         |                |         |
| Start-up voltage (V)                           |  |         | 22             |         |                |         |
| Maximum input current (A)                      |  |         | 11.5           |         |                |         |
| Maximum input short circuit current (A)        |  |         | 15             |         |                |         |
| <b>Output Data (AC)</b>                        |  |         |                |         |                |         |
| Peak output power (VA)                         | 350  |         | 700            |         | 1500           | 1350    |
| Maximum continuous output power (VA)           | 349  |         | 696            |         | 1438           | 1246    |
| Maximum continuous output current (A)          | 1.45   | 1.68    | 2.9            | 3.35    | 5.99           | 5.99    |
| Nominal output voltage(V)                      | 240  | 208     | 240            | 208     | 240            | 208     |
| Nominal output voltage range <sup>1</sup> (V)  | 211-264  | 183-228 | 211-264        | 183-228 | 211-264        | 183-228 |
| Nominal frequency/range <sup>1</sup> (Hz)      | 60/55-65   |         |                |         |                |         |
| Power factor (adjustable)                      | >0.99 default (0.8 lead to 0.8 lag)  |         |                |         |                |         |
| Total harmonic distortion                      | <3%  |         |                |         |                |         |
| Maximum units per branch <sup>2</sup> (10 AWG) | 16   | 14      | 8              | 7       | 4              | 4       |
| <b>Efficiency</b>                              |  |         |                |         |                |         |
| CEC peak efficiency (%)                        |  |         | 96.7           |         |                |         |
| CEC weighted efficiency (%)                    |  |         | 96.5           |         |                |         |
| Nominal MPPT efficiency (%)                    |  |         | 99.8           |         |                |         |
| Nighttime power consumption (mW)               |  |         | <50            |         |                |         |
| <b>Mechanical Data</b>                         |  |         |                |         |                |         |
| Ambient temperature range (°C)                 |  |         | -40 to +65     |         |                |         |
| Dimensions (W x H x D) mm                      | 182 x 164 x 29.5   |         | 250 x 170 x 28 |         | 280 x 176 x 33 |         |
| Weight (kg)                                    | 1.75   |         | 2.6            |         | 3.35           |         |
| Enclosure rating                               | Outdoor NEMA 6   |         |                |         |                |         |
| Cooling  | Natural convection - no fans   |         |                |         |                |         |
| <b>Features</b>                                |  |         |                |         |                |         |
| Communication                                  | 2.4 GHz proprietary RF (Nordic)  |         |                |         |                |         |
| Monitoring                                     | Yes  |         |                |         |                |         |
| Warranty                                       | Up to 25 years   |         |                |         |                |         |
| Compliance                                     | UL 1741, IEEE 1547, UL 1741 SA (240 Vac), CA Rule 21 (240 Vac), CSA C22.2 No. 107.1-16, FCC Part 15B, FCC Part 15C |         |                |         |                |         |
| PV Rapid Shutdown                              | Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems            |         |                |         |                |         |

\*1. Nominal voltage/frequency range can vary depending on local requirements.

\*2. Refer to local requirements for exact number of microinverters per branch.

## Duracell Power Center Energy Storage System

The Duracell Power Center ESS offers flexible and customizable solutions for backup power protection, time-of-use cost savings, and solar self-consumption. Our AC coupled systems are fully integrated and ready to install right out of the box.



### High Performance

- 5 kW or 10 kW continuous power output
- 14 kWh to 42 kWh storage capacity for the Duracell Power Center Essential unit
- Deep discharge use in daily cycle applications

### Safe and Long-lasting Cobalt-Free Battery Chemistry

- Lithium Iron Phosphate (LFP) battery modules
- Non-toxic and non-hazardous
- Twice the life cycle design as other battery chemistries (6000+ cycles)

### Maximum Installation Flexibility

- Modular wall-mount format
- AC coupled, ideal for new or existing solar PV installations

### Indoor or Outdoor Use

- NEMA 3R rated, 14 to 122 ambient operating temperature

### Customizable Sizing

- Additional 14 kWh battery cabinets can be added to increase storage capacity up to 42 kWh for the Duracell Power Center Essential unit

### Durability

- 10-year full system warranty
- 15-year power electronics warranty

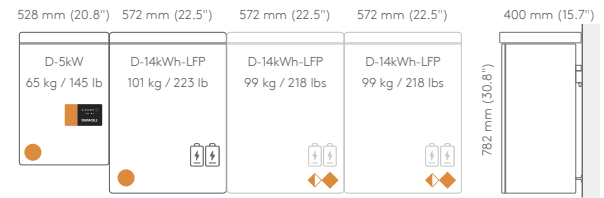
## Duracell Power Center Essential

### DIMENSIONS

Power rating 5 kW  
Battery capacity 14 kWh to 42 kWh

#### PCS: AC RATINGS

|   |      |                     |
|---|------|---------------------|
| Rated power                                 | [kW] | 5.0                 |
| Rated voltage                               | [V]  | 240/120 split-phase |
| Rated frequency                             | [Hz] | 60                  |
| Rated current                               | [A]  | 20.8                |
| Maximum overcurrent protection <sup>1</sup> | [A]  | 60.0                |
| Power factor range                          |      | 0.8 lead to 0.8 lag |
| DC ground fault monitoring                  |      | Included            |



#### BATTERY MODULE RATINGS

|  |       |                     |
|--|-------|---------------------|
| Chemistry  |       | LiFePO <sub>4</sub> |
| Voltage range                                    | [Vdc] | 44.5 to 53.5        |
| Maximum charge & discharge current (recommended) | [Adc] | 74.0 (37.0)         |
| DC capacity / (usable)                           | [kWh] | 3.55 / (3.37)       |
| Cycle life                                       |       | >6000 @ 25°C        |

#### DC ENERGY STORAGE RATINGS

|   |       |             |
|---|-------|-------------|
| Maximum battery modules per cabinet                     |       | 4           |
| DC capacity (usable), per cabinet                       | [kWh] | 14.2 (13.5) |
| Total maximum continuous PCS charge / discharge current | [Adc] | 100 / 125   |
| Total maximum capacity (1C) <sup>-2</sup>               | [aH]  | 887.5       |
| Total maximum energy (1C) <sup>-2</sup>                 | [kWh] | 42.6        |

#### PCS BACKUP POWER RATINGS

|  |       |                           |
|--|-------|---------------------------|
| Rated output power                                 | [KVA] | 5.0                       |
| Surge rating (6+ battery modules required)         | [%]   | 120 (30 min), 170 (5 sec) |
| Transfer power interrupt time: to backup / to grid | [s]   | 4.0 / 0.0                 |

#### GENERAL RATINGS

|   |      |   |
|---|------|---|
| Mounting method                                   |      | Wall-mount  |
| Ambient operating temperature range (recommended) | [°C] | 0 to 50 (15 to 30)                                    |
| Relative air humidity, maximum                    | [%]  | 95 ( non-condensing)                                  |
| ESS roundtrip efficiency <sup>3</sup>             | [%]  | > 85.7  |
| PCS (inverter) CEC weighted efficiency            | [%]  | 94.5  |
| Protection degree                                 |      | Type 3R (NEMA), Indoor / Outdoor                      |
| Galvanic Isolation                                |      | Transformer   |
| Cooling - PCS / Battery                           |      | Fan (thermostat) / convection                         |
| Energy consumption, standby (operating)           | [W]  | 8 (30)  |
| Display / EMS communication                       |      | LED: battery SOC level, system status / Modbus RS-485 |

#### CERTIFICATIONS & WARRANTY

|  |  |
|--|--|
| EMC                                      | FCC Part 15 Class B  |
| Safety                                   | UL 9540, UL 1741SA, UL 1973, CSA 22.2 No 107.1, IEEE 1547  |
| Utility interface                        | CSIP Rule 21, HI Rule 14H                                  |
| Warranty / battery performance guarantee | 10 year / 70% capacity, pro-rated / 15 year power controls |

1. The installed grid and load circuit breaker ratings are dependent upon the lesser of (A) the Hub maximum overcurrent protection rating to which the ESS is connected, or (B) 60 Amps.
2. The max. specified DC capacity & energy ratings are constrained by the max number of battery modules in a single BMS CANbus network; US3000C limit is twelve modules.
3. Combined minimum roundtrip efficiency (RTE) of the base PCS model with two battery modules at <0.5C charge & discharge rating. The RTE increases with each additional battery module.

Power Center Certification: NRTL listed to UL standards

## Duracell Power Center Core

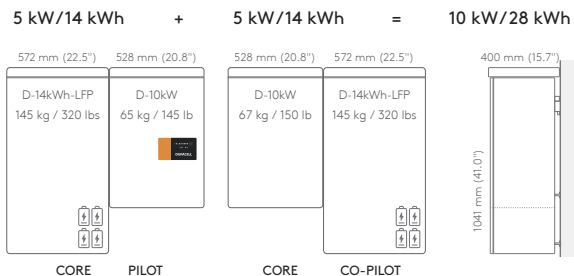
10 kW / 28 kWh is achieved by pairing two ESS units: one of each configured in pilot and co-pilot mode.

### DIMENSIONS

Power rating 10 kW  
Battery capacity 28 kWh

#### PCS: AC RATINGS - per Pilot Unit

|  |      |                     |
|--|------|---------------------|
| Rated power <sup>-1</sup>                    | [kW] | 5.0                 |
| Rated voltage                                | [V]  | 120                 |
| Rated frequency                              | [Hz] | 60                  |
| Rated current                                | [A]  | 41.6                |
| Maximum overcurrent protection <sup>-2</sup> | [A]  | 100.00              |
| Power factor range                           |      | 0.8 lead to 0.8 lag |
| DC ground fault monitoring                   |      | Included            |



#### BATTERY MODULE RATINGS

|  |   |
|--|---|
| Manufacturer/Model/Chemistry                     | Pylontech / US3000C / LiFePO <sub>4</sub> |
| Voltage range                                    | [Vdc] 44.5 to 53.5                        |
| Maximum charge & discharge current (recommended) | [Adc] 74.0 (37.0)                         |
| DC capacity / (usable)                           | [kWh] 3.55 / (3.2)                        |
| Cycle life                                       | >6000 @ 25°C                              |

#### PCS BACKUP POWER RATINGS - per Pilot Unit

|                                    |       |     |
|------------------------------------|-------|-----|
| Rated power                        | [KVA] | 5.0 |
| Surge rating, 30 minute            | [%]   | 120 |
| Surge rating, 5 seconds            | [%]   | 170 |
| Transfer interrupt time: to backup | [s]   | 4.0 |
| Transfer interrupt time: to grid   | [s]   | 0.0 |

#### DC ENERGY STORAGE RATINGS

|   |       |             |
|---|-------|-------------|
| Maximum battery modules per cabinet                     |       | 4           |
| DC capacity (usable), per cabinet                       | [kWh] | 14.2 (12.8) |
| Total maximum continuous PCS charge / discharge current | [Adc] | 200 / 250   |
| Total maximum capacity (1C) <sup>-3</sup>               | [Ah]  | 1184        |
| Total maximum energy (1C) <sup>-3</sup>                 | [kWh] | 28.4        |

#### GENERAL RATINGS

|   |                                       |
|---|---------------------------------------|
| Mounting method                                   | Wall-mount                            |
| Configuration options                             | Pilot/Co-Pilot                        |
| Ambient operating temperature range (recommended) | [°C] 0 to 50 (15 to 30)               |
| Energy consumption, standby (operating)           | [W] 16 (60)                           |
| Relative air humidity, maximum                    | [%] 95 ( non-condensing)              |
| ESS roundtrip efficiency <sup>-4</sup>            | [%] > 85.7                            |
| PCS (inverter) CEC weighted efficiency            | [%] 94.5                              |
| Protection degree                                 | Type 3R (NEMA), Indoor / Outdoor      |
| Galvanic Isolation                                | Transformer                           |
| Cooling - PCS / Battery                           | Fan (thermostat) / convection         |
| Display   | LED: battery SOC level, system status |
| EMS communication                                 | Modbus TCP-IP                         |

#### CERTIFICATIONS & WARRANTY

|  |  |
|--|--|
| EMC                                      | FCC Part 15 Class B  |
| Safety                                   | UL 9540, UL 1741SA, UL 1973, CSA 22.2 No 107.1, IEEE 1547, UL 9540A* |
| Utility interface                        | CSIP Rule 21, HI Rule 14H  |
| Warranty / battery performance guarantee | 10 year / 70% capacity, pro-rated                                    |

1. 10 kW / 28 kWh is achieved by pairing two ESS units; one of each configured in pilot and co-pilot mode. Consult Power Center for more details.

2. The installed circuit breaker rating is dependent upon the interconnected Power Center Core model rating.

3. The max specified DC capacity & energy ratings are constrained by the max number of battery modules in a single BMS CANbus network; US3000C limit is sixteen modules.

4. Combined minimum roundtrip efficiency (RTE) of the base PCS model with two battery modules at < 0.5C charge & discharge rating. The RTE increases with each additional battery module.

\* Test report available upon request.

Power Center Certification: NRTL listed to UL standards



## Scan for Product Datasheets



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