

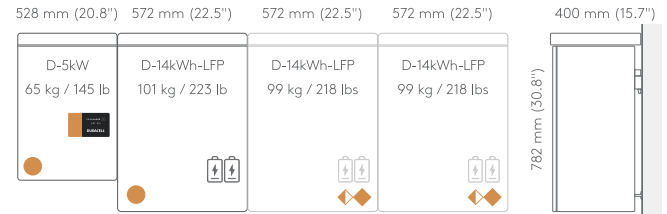
# Product Specifications

## DIMENSIONS

Power rating 5 kW  
Battery capacity 14kWh to 42kWh

### 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-1	[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)	[A dc]	74.0 (37.0)
DC capacity / (usable)	[kWh]	3.55 / (3.2)
Cycle life		>6000 @ 25°C

### 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	[A dc]	100 /125
Total maximum capacity (1C) <sup>-2</sup>	[aH]	1184
Total maximum energy (1C) <sup>-2</sup>	[kWh]	56.83

### PCS BACKUP POWER RATINGS

Rated output power	[RVA]	5.01
Surge rating (6+ battery modules required)	[%]	20 (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-3	[%]	> 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 circuit breaker rating is dependent upon the interconnected Duracell Power Center model rating.
2. The max. specified DC capacity & energy ratings are constrained by the max number of battery modules in a single BMS CANbus network; US3000 limit is eight modules, US3000C limit is sixteen 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.