

Duracell Power Center Core

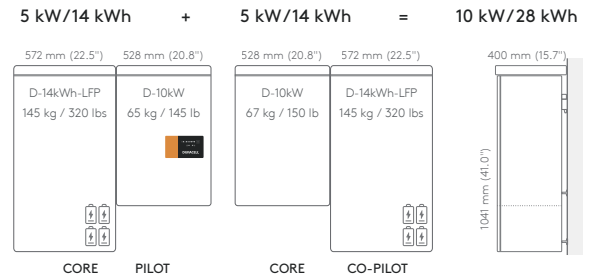
10 kW / 28 kWh is achieved by pairing two ESS units: one of each configured in pilot and co-pilot mode.

DIMENSIONS

Power rating 10 kW
Battery capacity 28 kWh

PCS: AC RATINGS - per Pilot Unit

Rated power ⁻¹	[kW]	5.0
Rated voltage	[V]	120
Rated frequency	[Hz]	60
Rated current	[A]	41.6
Maximum overcurrent protection ⁻²	[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 ₄
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) ⁻³	[Ah]	1184
Total maximum energy (1C) ⁻³	[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 ⁻⁴	[%]	> 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