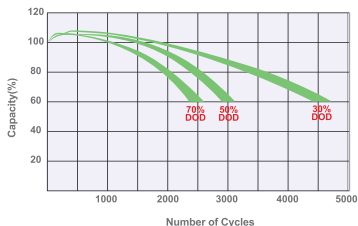# C2

RENEWABLE ENERGY CELL CARBON

NOMAD

The Nomad Power C2 Carbon battery has a superior resistance against partial states of charge (PSOC) wear, a chemical reaction called sulfation that occurs during the charging cycle and is the primary reason for ordinary batteries failing.

The Nomad Power C2 battery provides not only extremely fast recharging over a wide charging voltage range, but high power and discharge rates through supercapacitors. This together with a longer cycle life (4500 cycles at 30% DOD) giving a 10+ year lifespan make the C2 the sole choice for all **demanding ene**rgy storage applications.

APPLICATIONS

- Residential or commercial off-grid systems
- RV and marine
- Engine starting
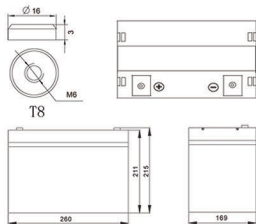- Communication, Data centers and UPS
- Electric vehicles and motors

SPECIFICATION

Nominal Voltage	12V	
Nominal Capacity(100HR)	85AH	
Dimension	Length	260 ± 1mm (10.2 inches)
	Width	169 ± 1mm (6.6 inches)
	Container Height	211 ± 1mm (8.30 inches)
	Total Height (with Terminal)	211 ± 1mm (8.30 inches)
Approx Weight	Approx 24.7 kg (54.3 lbs)	
Terminal	I3 (M6)	
Container Material	ABS	
Rated Capacity	85AH / 0.85A	(100hr, 1.80V/cell, 30°C/86°F)
	68.8AH / 3.44A	(20hr, 1.80V/cell, 30°C/86°F)
	65.0AH / 6.5A	(10hr, 1.80V/cell, 30°C/86°F)
	58.8AH / 11.7A	(5hr, 1.75V/cell, 30°C/86°F)
	53.3H / 17.7A	(3hr, 1.75V/cell, 30°C/86°F)
	42.3AH / 43.3A	(1hr, 1.60V/cell, 30°C/86°F)
Max. Discharge Current	500 CCA	
Internal Resistance	7.5 mΩ	
Operating Temp.Range	Discharge : -15 ~ 50°C (5 ~ 122°F)	
	Charge : 0 ~ 40°C (32 ~ 104°F)	
	Storage : -15 ~ 40°C (5 ~ 104°F)	
Nominal Operating Temp. Range	27 ± 3°C (80± 5°F)	
Cycle Use	Initial Charging Current less than 25A.Voltage 14.1V~14.4 at 25°C(77°F) Temp. Coefficient -30mV/°C	
Standby Use	13.3V~13.7V at 25°C(77°F) Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104 °F)	102%
	30°C (86 °F)	100%
	0°C (32 °F)	86%
Self Discharge	NOMAD POWER C2 series batterys may be stored for up to 3 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

CYCLE LIFE VS. DEPTH OF DISCHARGE

Capacity(%) — Number of Cycles

70% DOD   50% DOD   30% DOD

TERMINAL PHOTO

Ø 16   M6   T8

211   215   260   169