

- True deep cycle AGM battery
- Over 99.99% virgin lead for grid plate and active material
- Heavy duty grid/paste design for deep cycle application
- Maintenance free, non-spillable, valve-regulated
- Double separator configuration for long cycle life & high energy density with anti-vibration design
- Country of Origin: Vietnam
- 7 year limited warranty



**■ ELECTRICAL SPECIFICATIONS**

| Voltage (V) | Capacity (AH) |      |      |     |     | Reserve Capacity (Min) |      |      |
|-------------|---------------|------|------|-----|-----|------------------------|------|------|
|             | 100HR         | 20HR | 10HR | 5HR | 3HR | @25A                   | @56A | @75A |
| 12          | 160           | 148  | 141  | 122 | 118 | 308                    | 115  | 88   |

**■ PHYSICAL SPECIFICATIONS**

| Model       | Dimensions (mm/inches) |           |             |              | Weight (kg/lbs) | Terminal Type (Standard) | Case Material |
|-------------|------------------------|-----------|-------------|--------------|-----------------|--------------------------|---------------|
|             | Length                 | Width     | Height      | Total Height |                 |                          |               |
| PC12-145-DC | 340 (13.39)            | 173(6.81) | 280 (11.02) | 287 (11.30)  | 42.6(93.9)      | M8                       | ABS           |

**■ OPERATING TEMPERATURE RANGE**

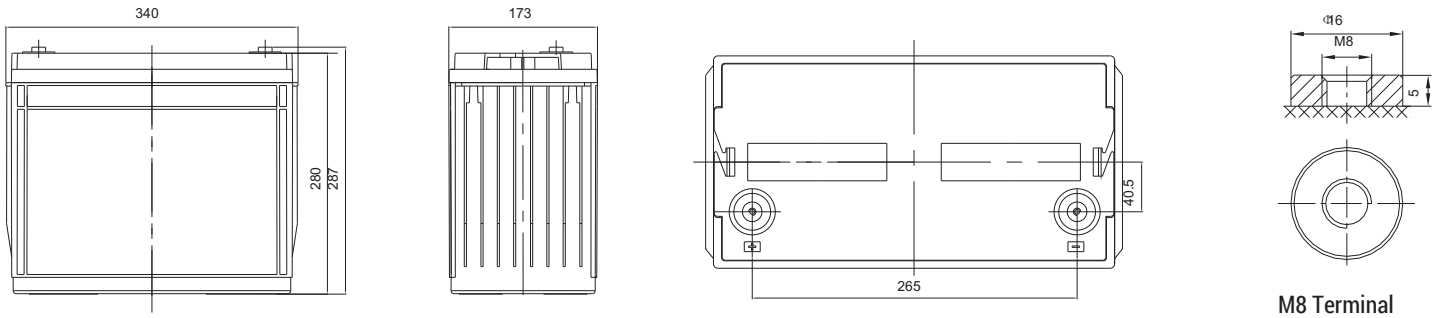
| Discharge                   | Charge                     | Storage                     |
|-----------------------------|----------------------------|-----------------------------|
| -20°C ~ 60°C (-4°F ~ 140°F) | -15°C ~ 50°C (5°F ~ 122°F) | -20°C ~ 60°C (-4°F ~ 140°F) |

**■ APPLICATIONS**

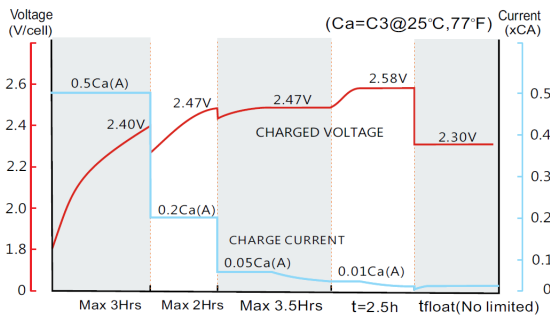
- |                                   |                 |                 |
|-----------------------------------|-----------------|-----------------|
| Energy Storage / Renewable Energy | Boats and Ships | Solar & Wind    |
| Recreational Vehicles             | Generators      | Golf Carts      |
| Fort Lift Trucks                  | Motive Power    | Traffic Signals |
| Uninterruptable Power Supplies    |                 |                 |



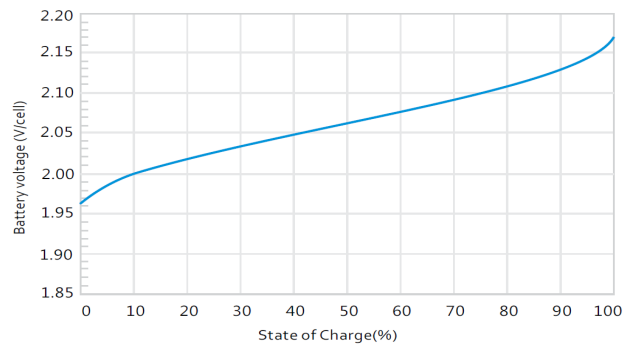
**■ Dimensions**



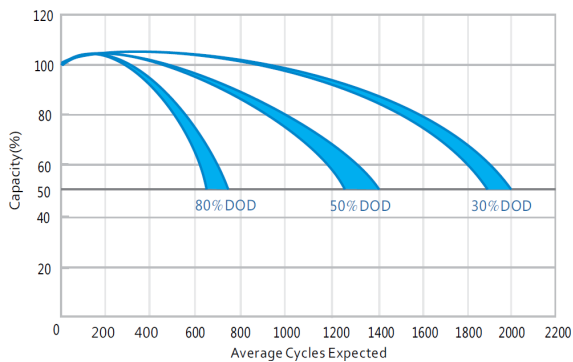
**■ Charging Profile**



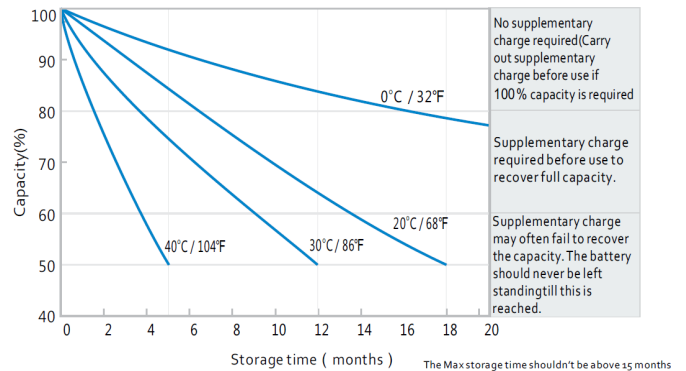
**■ OCV vs State of Charge @25°C / 77°F**



**■ Cycle Life versus Depth of Discharge**



**■ Self Discharge Characteristics**



**Regular Charge / Float Charge / Storage**

- Charging voltage temperature compensation needs to be applied when temperature is below 0°C and above +45°C.
- Charging in temperatures below 0°C, the charge current should not exceed 0.1C as the core battery temperature can increase rapidly and damage the battery.
- During floating charge or when in storage, the life of the battery is cut in half for every 8°C temperature rise over 25°C.

**Discharge**

- Discharging at elevated temperatures improves performance of the battery yet shortens its life due to accelerated aging.
- Low temperature affects the battery internal resistance and lowers its capacity. The battery provides 100% specified capacity at 25°C. It will deliver 50% of its stated capacity at -20°C with 0.1C discharge current and 20% with 2C discharge current.