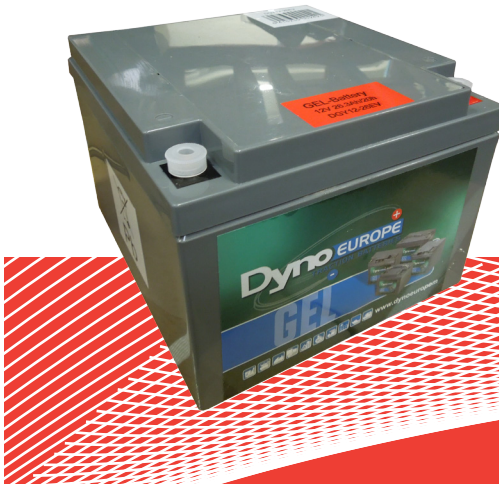


# TECHNICAL DATA SHEET

## DGY12-26



### Applications

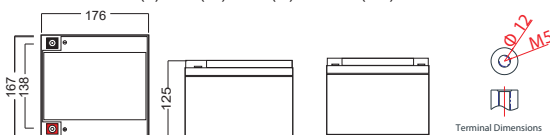
- › Solar / wind energy and other new energy storage
- › UPS/EPS
- › Power systems
- › Telecommunications system
- › Emergency lighting、 Auto control system
- › Other general purpose

### General Features

- › Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- › Relatively rich electrolyte, high temperature and low temperature performance is superior
- › Long cycle life, excellent deep cycle discharge ability
- › Excellent charge acceptance ability
- › Precision sealing technology
- › Long life



Dimension: 166(L)×176(W)×125(H) ×125(TH) Unit: mm



### Specification

Nominal Voltage	12V
Nominal Capacity	26.4Ah
Design life	10 years
Terminal	M5
Approx. Weight	Approx8 kg
Container Material	ABS
Rated Capacity	26.4Ah 20Hour Rate
	20.1Ah 3Hour Rate
	16.8Ah 1Hour Rate
Internal resistance	Full charged at 25°C: 15.0 mΩ
Max. Discharge Current	390A(5S)
Operating Temperature	Discharge: -20 ~50 (-4~ 122°F)
	Charge: -20 ~50 (-4~ 122°F)
	Storage: -20 ~50 (-4~ 122°F)
Charge current:	Max.6.50A ; Recom.2.60A
Charge Method (25 °C)	Float Charge: 13.5-13.8V,recom.13.5V(-18mV/ °C)
	Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C)
	Cycle charge:14.4-15.0V,recom.14.4V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	48.7	31.9	16.8	9.63	7.03	4.79	3.16	2.56	1.38
1.65V	44.6	30.3	15.8	9.25	6.83	4.69	3.11	2.54	1.35
1.70V	41.6	29.4	15.3	9.07	6.70	4.64	3.06	2.48	1.32
1.75V	38.8	28.7	14.8	8.84	6.60	4.43	2.98	2.43	1.30
1.80V	36.1	27.7	14.2	8.61	6.24	4.26	2.90	2.38	1.25

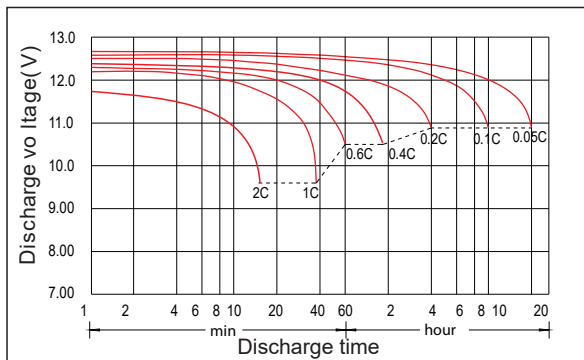
# TECHNICAL DATA SHEET

## DGY12-26

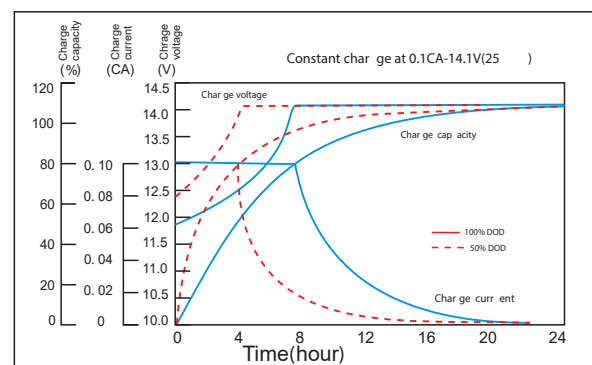
Constant Power Discharge Characteristics		Unit: W/cell ( 25°C, 77°F )							
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	89.1	53.9	30.8	18.0	13.3	9.05	5.96	4.96	2.72
1.65V	83.6	53.5	29.0	17.4	12.9	8.88	5.87	4.87	2.65
1.70V	79.9	53.3	28.1	17.0	12.7	8.62	5.81	4.83	2.63
1.75V	76.9	52.8	27.3	16.6	12.5	8.45	5.58	4.72	2.57
1.80V	73.6	52.4	26.9	16.5	12.2	8.24	5.39	4.62	2.56

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

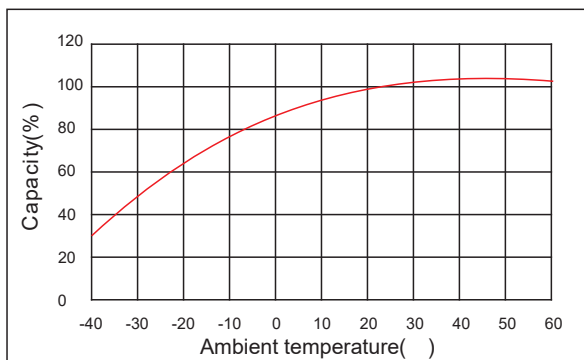
### Discharge characteristic



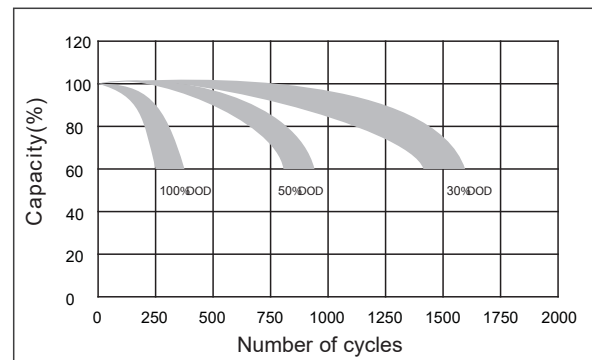
### Charging characteristic



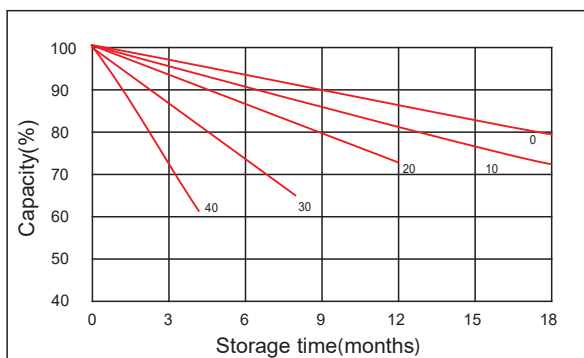
### The effect of temperature on capacity



### The effect of discharge depth on cycle life



### Curves of self-discharge



### Curves of open circuit voltage vs. capacity

