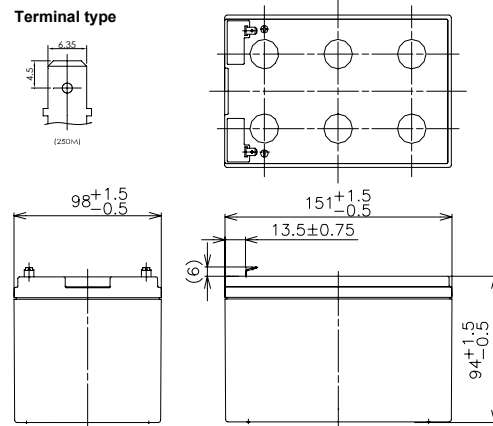


For pitch backup systems in wind turbines
 Expected life: 5 years at 20 °C, 3 years at 25 °C
 (based on a weekly discharge cycle of max 15 seconds)



※Contents indicated (including the recycle marking, etc) are subject to change without notice.

■ Dimensions(mm)



Battery case resin: Flame-retardant (UL94V-0)

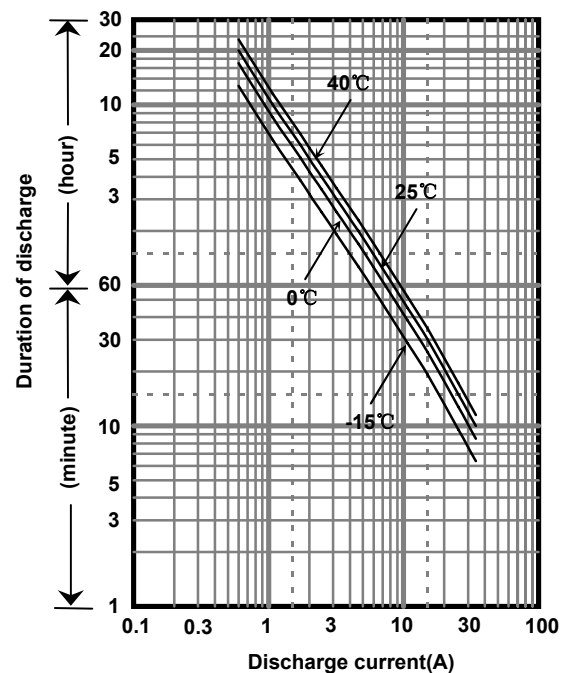
■ Specifications

Nominal Voltage		12V
Rated Capacity(20HR)		12Ah
Dimensions	Length	151 mm
	Width	98 mm
	Height	94 mm
	Total height	101.5 mm
Approx. Mass		3.85 kg
Terminal		Faston 250M

■ Characteristics

Capacity (25 °C)	20 hour rate	12Ah
	10 hour rate	10Ah
	3 hour rate	9.3Ah
	1 hour rate	8.5Ah
Internal Resistance (25 °C)	Fully charged battery	15 mΩ
Temperature Dependency of Capacity (20 hour rate)	40 °C	102%
	25 °C	100%
	0 °C	85%
	-15 °C	65%
Self Discharge (25 °C)	After 3 months	91%
	After 6 months	82%
	After 12 months	64%

■ Duration of discharge vs. discharge current



■ Large current discharge characteristics(25 °C)

Peak current(A for milliseconds)	267	250	233	217	200	187	175	157	143	133	125
Discharge current(A)	240	225	210	195	180	168	158	142	130	120	113
Discharge time(sec)	3	6	10	15	20	25	30	40	50	60	70

Peak current(A for milliseconds)	117	110	103	98	92	87	82	77	73	70	67
Discharge current(A)	105	100	93	88	83	78	73	70	67	63	60
Discharge time(sec)	80	90	100	110	120	130	140	150	160	170	180

The cut off voltage should be more than 8.0V. Battery should be charged after each discharge. All mentioned values are average values.

■ Charging method

**Control voltage: 13.6V~13.8V at 20°C~25°C with temperature compensation, Initial current: 1.80A or smaller

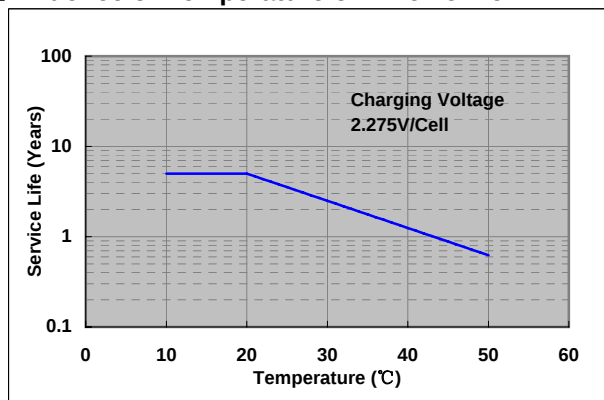
**Please consult us for the right control voltage if the ambient temperature is different.

■ Operating temperature range

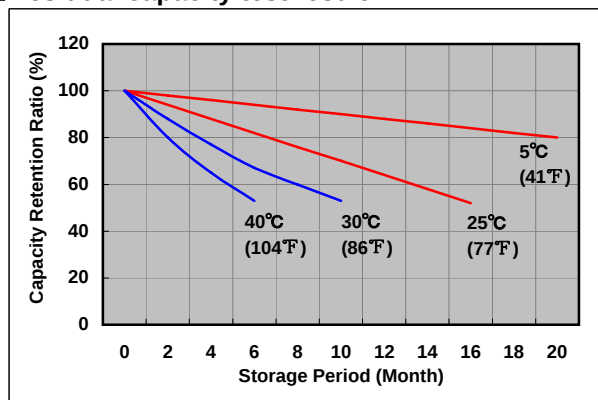
*Storage	Charge	Discharge
-40°C~ 50°C	-20°C~ 50°C	-20°C~ 50°C

* For storage, please ensure that battery is fully charged.

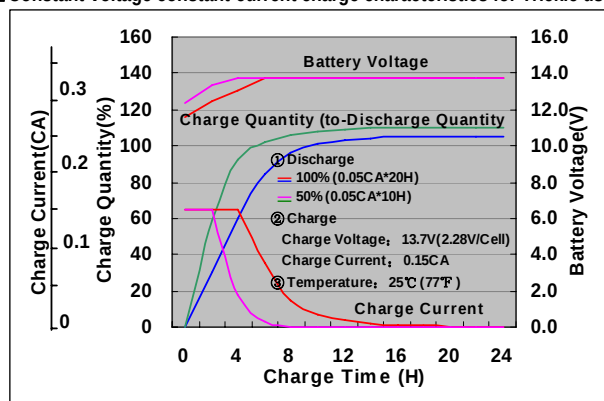
■ Influence of Temperature on Trickle life



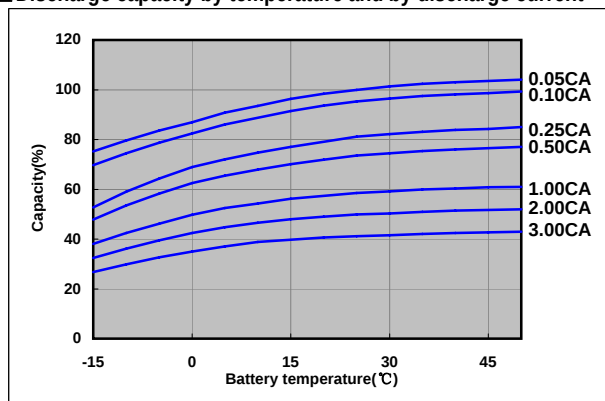
■ Residual capacity test result



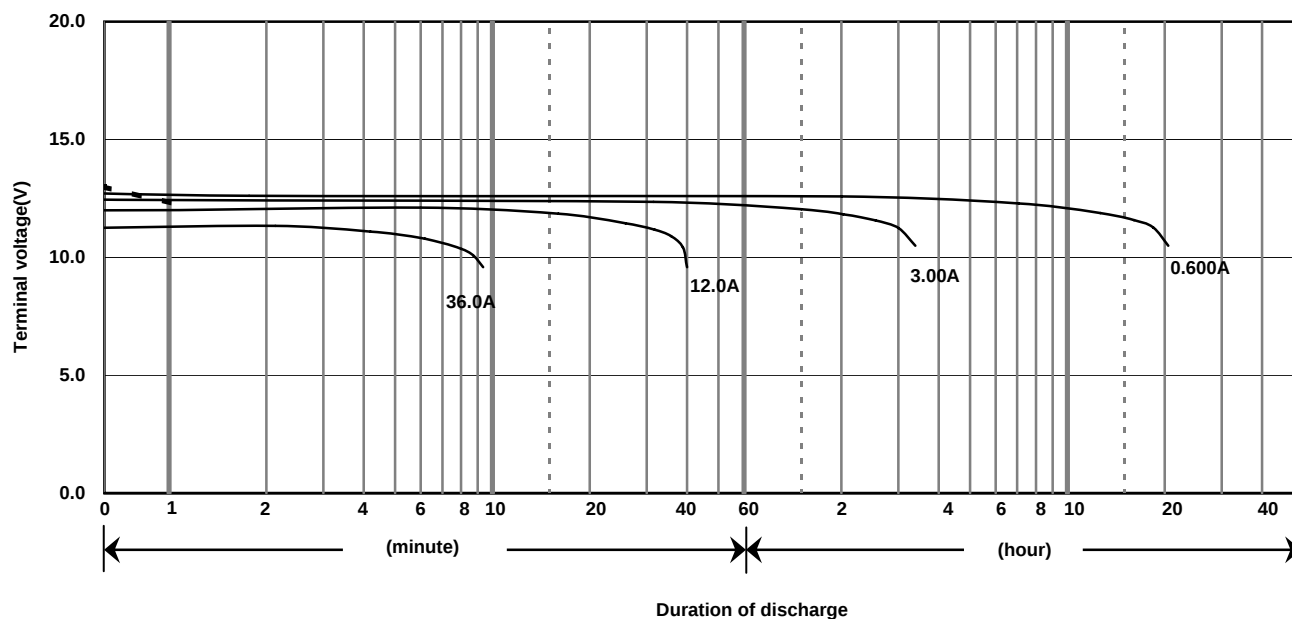
■ Constant-voltage constant-current charge characteristics for Trickle use



■ Discharge capacity by temperature and by discharge current



■ Discharge characteristics(25°C)



⚠ Caution

Due to the potential energy stored in the batteries, Please read 《Precautions for handling the Rechargeable Valve Regulated Lead Acid Batteries》 before using batteries. If improper handling or use of the batteries without understanding 《Precautions for handling the Rechargeable Valve Regulated Lead Acid Batteries》 may result in bodily injury caused by electrolyte leakage, heat generation, or explosion.

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