

ELECTRIC ROAD CAR LEAD ACID BATTERY

EVF series Having the characteristics of no cadmium maintenance free, long life, high power, large capacity, good vibration resistance, low self-discharge, good adaptability for high-low temperature environment, good capability of fast charge, good resistance to over-discharge performance and other major features.

12 V
voltage100Ah
capacityAGM
techEnhanced
deep cycling

TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (25°C)	100 Ah @ 3HR-rate (to 1.80Vpc)
Dimension (mm)	L330mm x W170mm x H210mm
Approx. Weight	33.50 kg
Terminal Type	Female Copper Insert M8
Internal Resistance	Approx. 0.004 Ohm (fully charged @ 25°C)
Max. Charge Current	100A
Max. Discharge Current (5S)	550 A
Short Circuit Current	2100 A
Self Discharge	Approx. 2.5% per month @ 20°C
Ambient Temperature	Discharge: -20~60°C Charge: -20~60°C Storage: -20~45°C
Open-Circuit Voltage	13.0-13.4V
Charge Voltage	13.8-14.7V @25°C
Container Material	ABS (UL94-V0 optional)



ISO9001



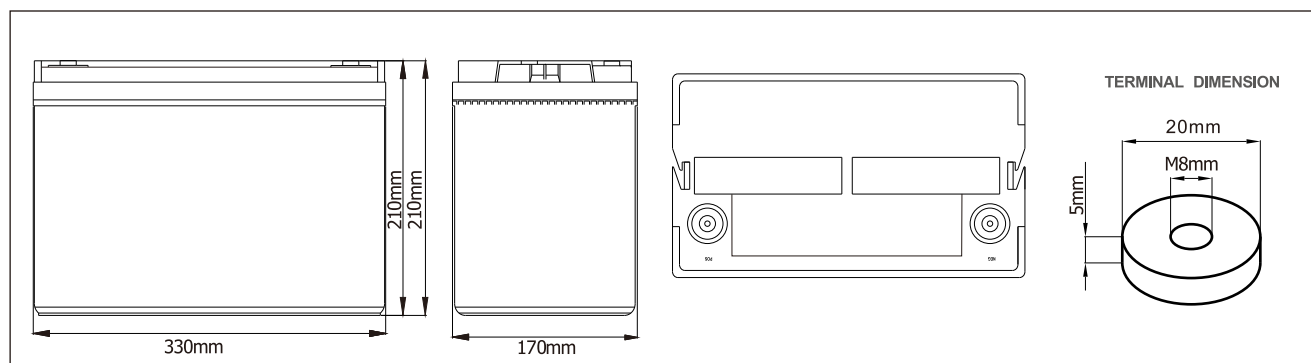
ISO14001

GB/T 28001:2001
(OHSAS 18001:2007)

Complied standards

- GB/T 32620

BATTERY DIMENSIONS

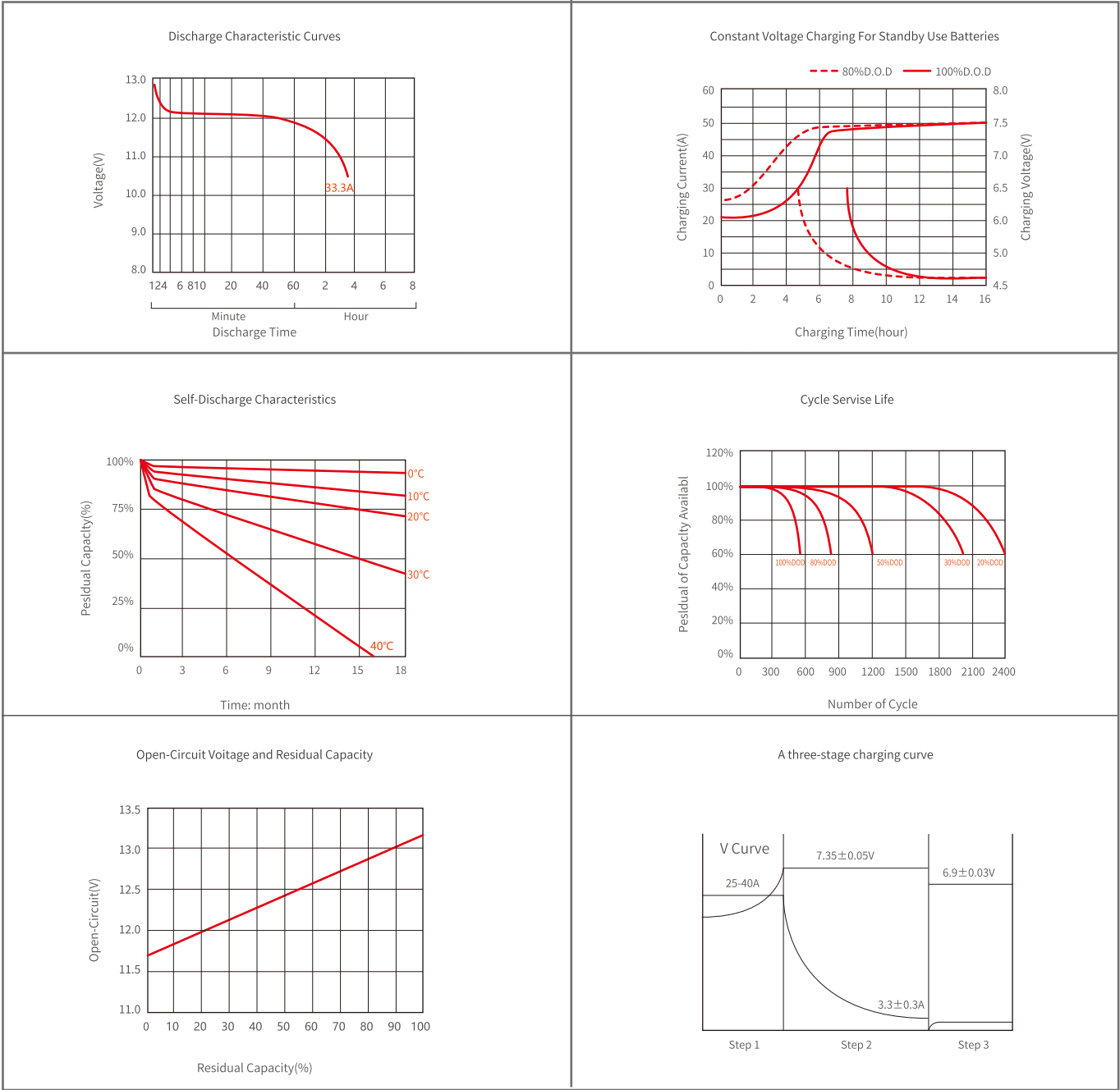


BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)											
F.V/Time	10min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.6V	241.8	162.5	128.2	102.1	88.27	61.21	47.54	33.93	21.32	11.15	6.06
1.65V	236.4	159.9	126.7	101.2	87.62	60.79	47.24	33.75	21.21	11.1	6.04
1.7V	229	156.1	124.5	99.8	86.67	60.25	46.87	33.52	21.12	11.05	6.02
1.75V	219.3	151.6	122.1	98.4	85.65	59.66	46.5	33.3	21	11	6

Constant Power Discharge Characteristics: W/cell (25°C)											
F.V/Time	10min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.6	396.9	271.1	217.4	177.5	157.7	116.3	92.9	66.9	42	21.9	11.37
1.65	388	266.8	214.9	176	156.5	115.6	92.4	66.6	41.8	21.8	11.33
1.7	375.8	260.5	211.1	173.6	154.8	114.5	91.6	66.1	41.6	21.7	11.28
1.75	360	252.9	207	171	153	113.4	90.9	65.7	41.4	21.6	11.25

CHARACTERISTICS



FINAL VOLTAGE SETTINGS RECOMMENDED
ACCORDING TO THE DISCHARGE CURRENT

Discharge Current I (A)	$I \leq 0.08C$	$0.08C \leq I < 0.2C$	$0.2C \leq I < 0.6C$	$0.6C \leq I < 1.0C$	$I \geq 1.0C$
Final of Voltage	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$

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