



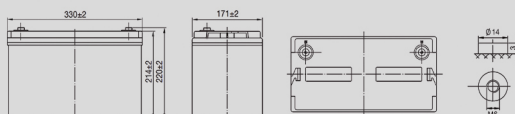
SP12V - 100Ah

VRLA Battery

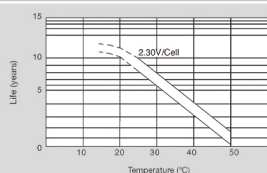
Applications

- Uninterruptible Power Supplies (UPS)
- Electric Power Systems (EPS)
- Emergency backup power supplies
- Electronic apparatus and equipment
- Communication power supplies
- DC power supplies
- Auto control system

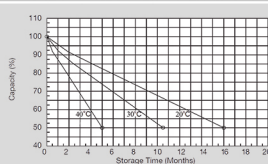
Dimensions



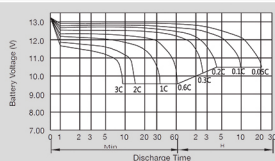
Temperature Effects on Float Life



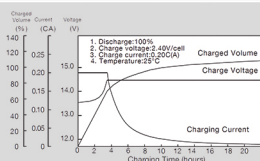
Self Discharge Characteristics



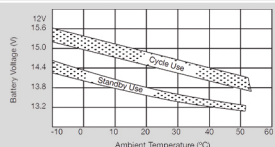
Discharge Characteristics (25°C)



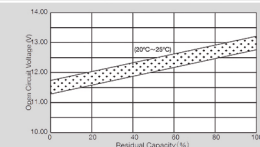
Constant Voltage Charging Characteristic (0.25 CA, 25°C)



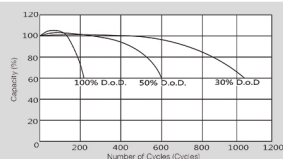
Constant Voltage Charging Characteristic (0.25 CA, 25°C)



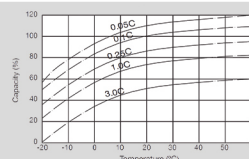
Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity



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SP12V - 100Ah

VRLA Battery

Technical Specification	12V - 100Ah	مشخصات فنی
Nominal Voltage	12 V	ولتاژ اسمی
Number of cells	6	تعداد سلول ها
Design Life	10 years	طراحی
Dimensions	Length : (330 mm) / Width : (171 mm) / Height : (214 mm) / Total Height : (220 mm)	ابعاد
Approx. Weight	27.5 kg	وزن تقریبی
Nominal Capacity (25°C)	20 hours rate (5.25 A, 10.8 V) (105.0 Ah) / 10 hours rate (10.00 A, 10.8 V) (100.0 Ah) 5 hours rate (17.50 A, 10.5 V) (87.5 Ah) / 1 hour rate (62.00 A, 9.6 V) (62.0 Ah)	ظرفیت اسمی (25°C)
Max. Discharge Current (25°C)	800 A (5s)	حداکثر جریان تخلیه (25°C)
Internal Resistance Fully Charged battery (25°C)	4.5 mOhms	باتری کاملاً شارژ شده با مقاومت داخلی (25 درجه سانتیگراد)
Self-Discharge	3% of capacity declined per month at 20°C (average)	خود تخلیه
Operating Temperature Range	Discharge : -15°C~50°C / Charge : -10°C~50°C / Storage : -20°C~50°C	محدوده دمای عملیاتی
Short Circuit Current	2745 A	جریان اتصال کوتاه
Charge Methods: Constant Voltage Charge (25°C)	Cycle use (2.40-2.45 Vpc) / Maximum charging current (30 A) / Temperature compensation (-30 mV/°C) Standby use (2.23-2.27 Vpc) / Temperature compensation -18 mV/°C	روش های شارژ: شارژ ولتاژ ثابت (25°C)

Battery Construction	Component	Positive Plate	Negative Plate	Container	Cover	Safety Valve	Terminal	Separator	Electrolyte	ساختار باتری
Battery Construction	Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid	ساختار باتری

Constant Current Discharge (Amperes) at 25°C											
End Voltage (Volts/Cell)	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60 V	210	165	100	62.0	36.5	25.5	20.9	17.9	12.2	10.2	5.34
1.65 V	204	161	98.0	61.1	36.3	25.4	20.8	17.7	12.2	10.2	5.33
1.70 V	195	155	95.0	59.5	36.0	25.2	20.6	17.6	12.1	10.1	5.32
1.75 V	187	150	92.7	58.3	35.5	25.0	20.5	17.5	12.0	10.1	5.29
1.80 V	176	142	89.3	56.5	34.6	24.3	19.9	17.0	11.6	10.0	5.25

Constant Power Discharge (Watts) at 25°C											
End Voltage (Volts/Cell)	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60 V	2268	1812	1122	707	423	300	246	211	145	122	64.1
1.65 V	2200	1768	1100	696	421	298	244	210	145	121	64.0
1.70 V	2109	1703	1066	679	417	296	243	208	144	121	63.8
1.75 V	2019	1645	1040	665	411	294	241	207	143	120	63.4
1.80 V	1905	1558	1002	645	400	285	234	201	138	119	63.0

Sealed Lead Acid Battery

