

◆ Valve Regulated Lead Acid Battery(VRLA)

ESP100-12 (12V, 100Ah/10Hr)

► Applications

- Solar, Renewable , UPS, Telecoms

► Technical Features

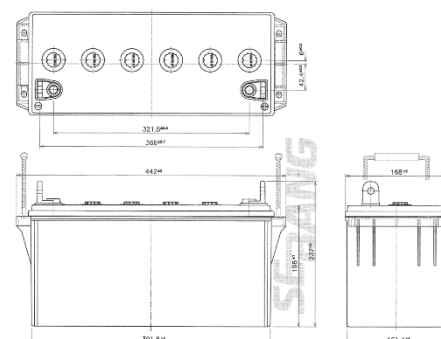
- Sealed Construction
- Absorptive Glass Mat System(AGM System)
- Gas Recombination
- Low Pressure Venting System
- Maintenance Free

► Specifications

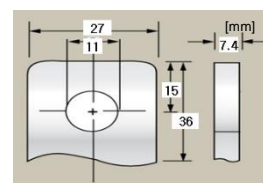
Nominal Capacity(AH)	• 100	
Nominal Voltage(V)	• 12	
Dimensions(L*W*H*TH)	• 442*168*198*237(mm)	
Weight(kg)	• 30.1	
Design life(at 25°C)	Cycle	• DOD50% 1000 cycle
	Float	• 10 years
Internal resistance(mΩ, at 25°C)	• 3.5	
Self Discharge(at 25°C)	• 3% / Month	
Operational Temperature Range	Storage	• -15 ~ 40°C
	Discharge	• -15 ~ 45°C
	charge	• 0 ~40°C
Charge voltage (at 25°C)	Cyclic use	• 14.4V
	Standby use	• 13.32V



► Lay out



► Terminals



► Performance Data (Constant Current-Ampere, at 25°C)

Final Voltage	5min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.8V / Cell	250	141	96.1	70.1	57.2	34.5	24.7	16.2	10.9	10.0	5.4	1.08
1.7V / Cell	281	160	99.5	74.4	61.5	36.7	26.8	17.6	11.5	10.2	5.5	1.2
1.6V / Cell	328	174	102	76.5	63.2	37.9	27.8	18.2	12.7	10.4	5.6	1.25

► Performance Data (Constant Power-Watts, at 25°C)

Final Voltage	5min	10min	15min	20min	30min	40min	50min	1hr	2hr	3hr	5hr	8hr	10hr
1.8V / Cell	2535	2025	1725	1370	1147	941	794	673	355	225	143	126	121
1.75V / Cell	2875	2200	1860	1450	1177	971	824	693	365	235	145	128	123
1.7V / Cell	3170	2310	1920	1505	1192	991	834	708	370	238	147	129	124
1.6V / Cell	3625	2455	1985	1530	1207	1006	849	718	375	241	150	130	126