

◆ Valve Regulated Lead Acid Battery(VRLA)

ESP100H-12 (12V, 100Ah/10Hr)

► Applications

- Solar, Renewable , UPS, Telecoms

► Technical Features

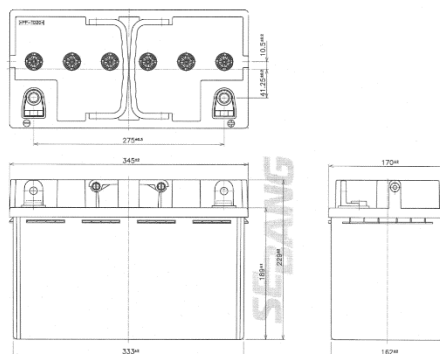
- Sealed Construction & Maintenance Free
- Absorptive Glass Mat System(AGM System)
- Gas Recombination
- Low Pressure Venting System
- Frame Retardant

► Specifications

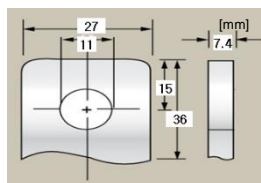
Nominal Capacity(AH)	· 100	
Nominal Voltage(V)	· 12	
Dimensions(L*W*H*TH)	· 345*170*229*229(mm)	
Weight(kg)	· 26	
Design life(at 25°C)	Cycle	· DOD50% 1000 cycle
	Float	· 10 years
Internal resistance(mΩ, at 25°C)	· 3.7	
Self Discharge(at 25°C)	· 3% / Month	
Operational Temperature Range	Storage	· -15 ~ 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	1hr	2hr	3hr	5hr	8hr	10hr	20hr	100hr
1.8V / Cell	224	126	85	63	51	31.1	22.2	14.6	9.8	9.3	5.0	1.0
1.7V / Cell	252	144	89	67	55	33.0	24.1	15.8	10.4	9.4	5.1	1.1
1.6V / Cell	293	157	91	69	56	34.1	25.0	16.4	11.4	9.5	5.2	1.16

► 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	2484	1988	1533	1281	1024	856	741	653	388	278	182	121	100
1.75V / Cell	2774	2118	1624	1341	1034	881	758	666	396	283	186	123	102
1.7V / Cell	2984	2203	1668	1366	1069	896	768	679	401	286	188	124	104
1.6V / Cell	3202	2308	1738	1401	1084	907	778	685	404	289	190	125	106