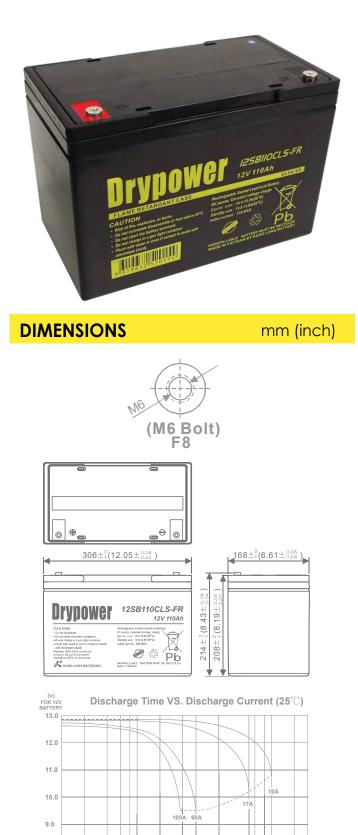
RECHARGEABLE SEALED LEAD ACID BATTERY

12SB110CLS-FR (12V 111Ah)

SPECIFICATIONS

Nominal Volt	age (V)	12V					
Nominal Cap	acity						
20 hour rate	V)	111.4Ah					
10 hour rate	20 hour rate (5.57A to 9.90V) 10 hour rate (10.6A to 9.90V)				106.0Ah		
5 hour rate	•				90.5Ah		
1 hour rate	(64.9A to 9.60	∨)			64.9Ah		
Weight			Ap	orox.	30.5kg (67.11bs)		
Internal Resis	tance (@1kHz)				Approx. 5mΩ		
Maximum Di	scharge Currer	nt					
For 5 second				1200A			
Charging Me	thods @25°C (7	′7°F)					
Cycle Use:		-					
Charging Vo		14.4V to 15.0V					
	5.0mV/°C/Cell						
Maximum Ch	narging Current	ł			30A		
Standby Use:							
Float Chargir				1	3.50V to 13.80V		
Coefficient -	3.0mV/°C/Cell						
Design Life					12 years		
Operating Te	mperature Ran	ge					
Charge	-	-	(5°F)	to	+40°C (104°F)		
Discharge			(5°F)				
Storage	-	15°C	(5°F)	to	+40°C (104°F)		
Charge Rete	ntion (Shelf Life)) @20	°C (68	B°F)			
1 month	•		•		98%		
3 months					94%		
6 months					85%		
Case Materic	31		UL94-V0 Flame Retardant				
Terminal					F8		



8.0

6 8 10

minutes

40 60

Discharge Time

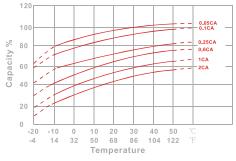
5 6 8 10

hours

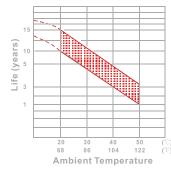
20

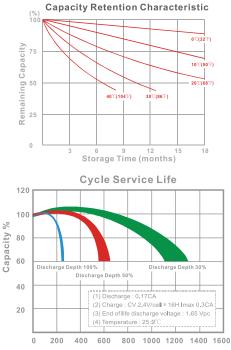
Drypower

Effect of Temperature on Capacity $25^{\circ}C(77^{\circ}F)$



Trickle (or float) Service Life





Number of Cycles (times)

- PERFORMANCE DATA Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	2749	3071	3292	3503	3600	3702	3894
10	min	2087	2281	2440	2592	2657	2731	2862
15	min	1660	1807	1919	2027	2075	2126	2217
30	min	977	1041	1095	1146	1167	1194	1236
60	min	669	696	714	731	738	747	758
120	min	398	417	432	441	447	454	463
180	min	283	298	311	313	318	324	331
240	min	211	224	236	248	252	257	263
300	min	188	197	205	211	213	216	220
600	min	108	115	120	125	127	129	131
1200	min	62.1	64.3	66.0	67.2	67.7	68.3	69.1

- Discharge Rates in Amperes to Various End Voltages at $25^{\circ}C(77^{\circ}F)$

	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time		1						
5	min	202	267	305	336	346	358	375
10	min	159	188	209	226	234	243	257
15	min	119	146	165	179	184	190	198
30	min	71.2	83.7	92.1	101	103	106	111
60	min	43.6	50.8	56.5	60.6	61.5	63.0	64.9
120	min	25.8	29.3	32.5	35.6	36.4	37.3	38.5
180	min	22.6	23.7	24.8	25.7	26.1	26.5	27.2
240	min	18.3	19.1	19.8	20.5	20.8	21.1	21.6
300	min	16.1	16.7	17.2	17.6	17.8	17.9	18.1
600	min	9.71	10.0	10.2	10.4	10.5	10.6	10.7
1200	min	5.09	5.26	5.38	5.48	5.53	5.57	5.64

All data on the spec. sheet is an average value:

The tolerance range : X<6min(+15%~-15%), 6min≦X<10min(+12%~-12%),10min ≦X < 60min(+8% ~-8%), X≧60min(+5%~-5%)

Performance may vary depending on application. All specifications are correct at time of creation. All specifications and operation conditions contained in this datasheet are subject to change or improvement without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.