

## Valve-Regulated Lead-Acid Battery 12V-100AH

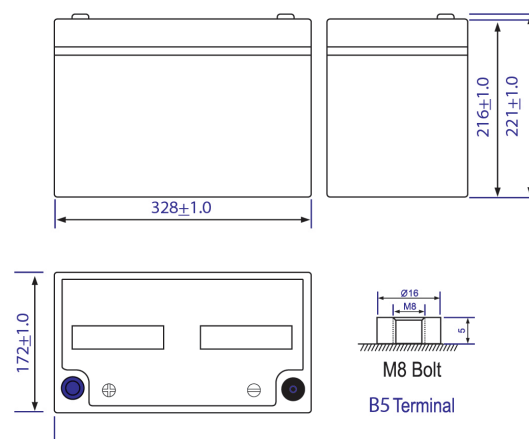
# FARPAK

EP

Fp 12-100 / 20HR



### Dimensions:



### Main Application:

- Backup power for telecom and signal system
- Military field, railway system, power system
- UPS & emergency lighting system
- Fire alarm and security system

### General features:

- Sealed and maintenance free operation.
- High energy density, low resistance and low discharge rate
- High quality and high reliability
- Safety valve installation for explosion proof

### Technical Parameters:

Battery Model	FP 12-100			
Designed floating Life	7~10 Years			
Capacity(25°C)	20HR(5A,10.5V)	10HR(9.5A,10.5V)	5HR(16A,10.5V)	1HR(60A,9.6V)
	100.0Ah	100.0Ah	80Ah	60Ah
Dimensions	Length	Width	Height	Total Height
	330mm	173mm	215mm	220mm
Approx. Weight	30.0kg±1%			
Internal Resistance	Full charge at 25°C:5.0mΩ			
Self-Discharge	< 3% of capacity declined per month at 25°C			
Capacity Affected by Temp(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage (25°C)	Cycle use		Float use	
	14.4-14.7(-30mV/°C)		13.5-13.8V(-20mV/°C)	

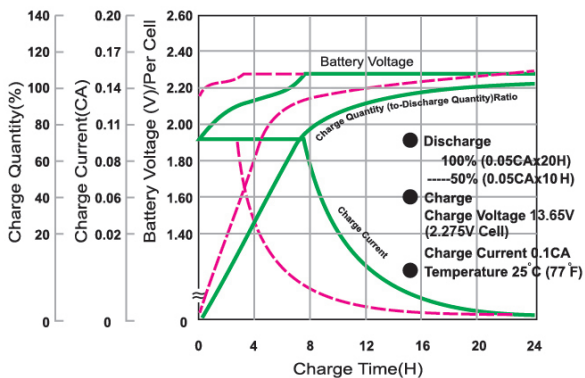
## Constant Current Discharge -Amp 25°C

F.V/Time	5min	10min	15min	30min	1Hour	2Hours	3Hours	4Hours	5Hours	10Hours	20Hours
1.65	217	168	102	80.1	54.2	37.8	26.1	17.5	10.6	8.41	4.33
1.70	205	157	86.8	75.8	51.9	36.9	25.0	16.9	10.4	8.16	4.25
1.80	173	137	78.5	71.5	49.4	35.3	23.6	16.0	10.0	7.93	4.18

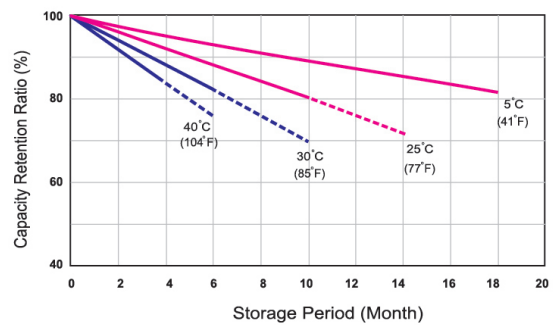
## Constant Power Discharge -Amp 25°C

Cutt off voltage V/cell	5min	10min	15min	30min	1Hour	2Hours	3Hours	4Hours	5Hours	10Hours	20Hours
1.65	571	394	307	191	148	119	70.0	49.1	32.4	18.3	8.11
1.70	542	389	304	185	146	115	69.1	49.0	32.2	18.2	8.10
1.75	506	379	291	162	142	111	68.4	47.7	31.6	18.1	8.07
1.80	561	346	274	156	141	108	67.9	46.1	31.0	18.0	8.06
1.85	423	330	264	151	138	107	66.6	46.1	30.5	17.7	8.04

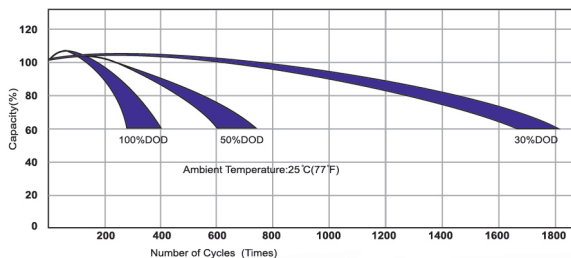
## Performance Curve



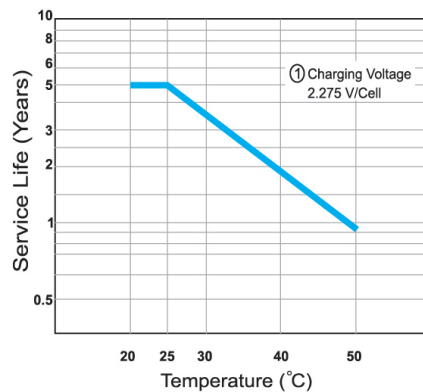
Charge Characteristics



Self-Discharge Characteristics



Cycle life in relation to depth of discharge



Temperature effects float life