

## Valve-Regulated Lead-Acid Battery 12V-28AH

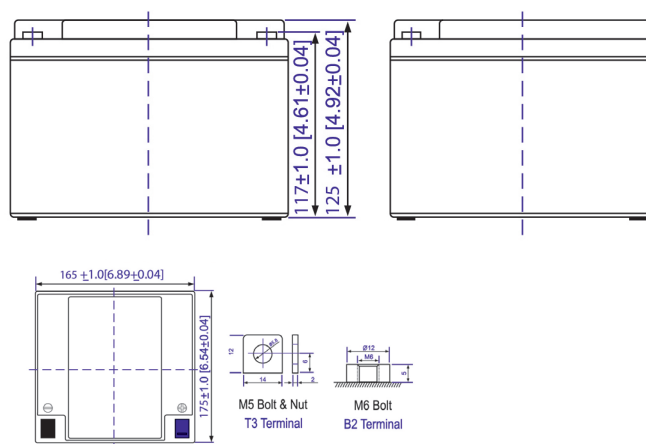
# FARPAK

EP

Fp 12-28 / 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 12-28			
Designed floating Life	5 Years			
Capacity(25°C)	20HR(1.40A, 10.5V)	10HR(2.58A, 10.5V)	5HR(4.75A, 10.5V)	1HR(15.87A, 9.6V)
	28Ah	25.8Ah	23.75Ah	15.87Ah
Dimensions	Length	Width	Height	Total Height
	165mm	75mm	125mm	125mm
Approx. Weight	8.05kg±1%			
Internal Resistance	Full charge at 25°C: 11mΩ			
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)	

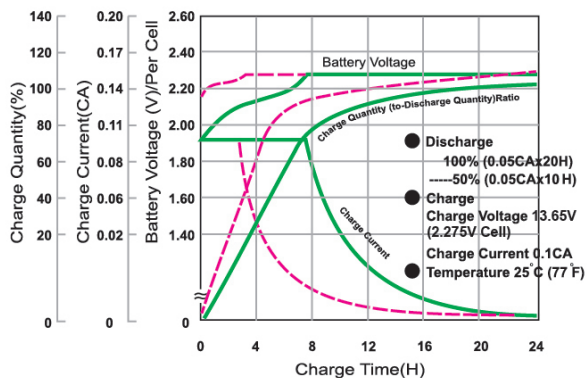
## Constant Current Discharge -Amp 25°C

F.V/Time	5min	10min	15min	30min	1Hour	2Hours	3Hours	4Hours	5Hours	10Hours	20Hours
1.65	104.16	65.8	52.36	29.40	18.00	10.80	7.11	5.71	4.85	2.64	1.41
1.70	99.4	66.00	60.68	28.84	17.50	9.94	7.05	5.66	4.82	2.62	1.41
10.80	89.6	59.92	46.20	27.72	16.52	9.52	6.89	5.46	4.70	2.55	1.38

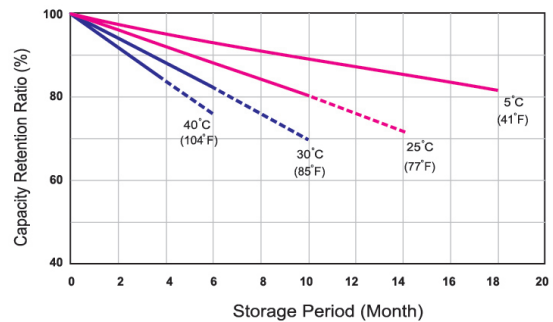
## Constant Power Discharge -Amp 25°C

Cutt off voltage V/cell	5min	10min	15min	30min	1Hour	2Hours	3Hours	4Hours	5Hours	10Hours	20Hours
1.60	198.10	126.90	102.80	57.50	38.50	20.30	14.30	11.45	9.68	5.30	2.84
1.65	193.60	123.40	99.20	56.10	34.70	19.70	14.10	11.36	9.66	5.26	2.83
1.70	184.90	118.20	91.10	55.10	33.70	19.40	14.00	11.26	9.59	5.22	2.82
1.75	177.20	113.70	92.50	54.60	33.00	19.20	13.90	11.15	9.49	5.19	2.81
1.80	167.00	112.90	87.80	53.00	31.90	18.60	13.70	10.88	9.39	5.11	2.76

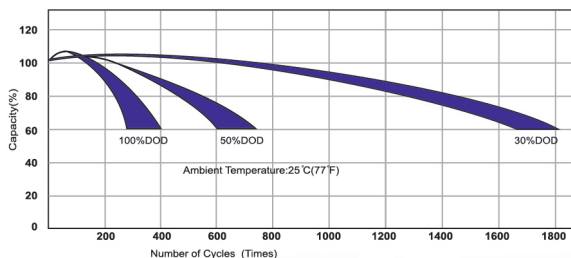
## Performance Curve



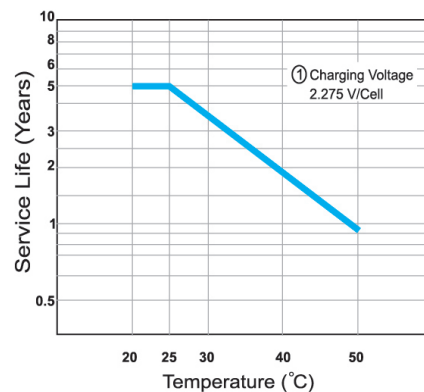
Charge Characteristics



Self-Discharge Characteristics



Cycle life in relation to depth of discharge



Temperature effects float life