

## Valve-Regulated Lead-Acid Battery 12V-42AH

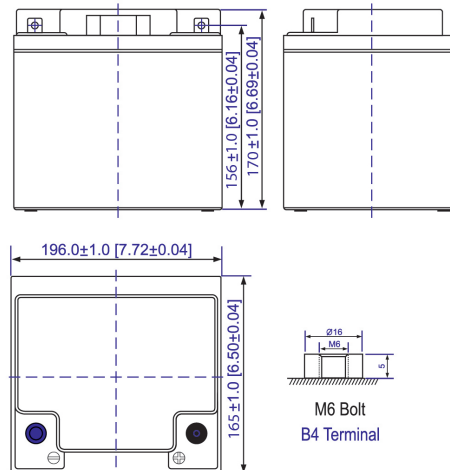
# FARPAK

EP

Fp 12-42 / 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 12-42			
Designed floating Life	5~7 Years			
Capacity(25°C)	20HR(2.1A, 10.5V)	10HR(3.86A, 10.5V)	5HR(6.72A, 10.5V)	1HR(25.27A, 9.6V)
	42.0Ah	38.6Ah	33.6Ah	25.2Ah
Dimensions	Length	Width	Height	Total Height
	196mm	165mm	150mm	170mm
Approx. Weight	13.8kg±1%			
Internal Resistance	Full charge at 25°C:8.3mΩ			
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)	

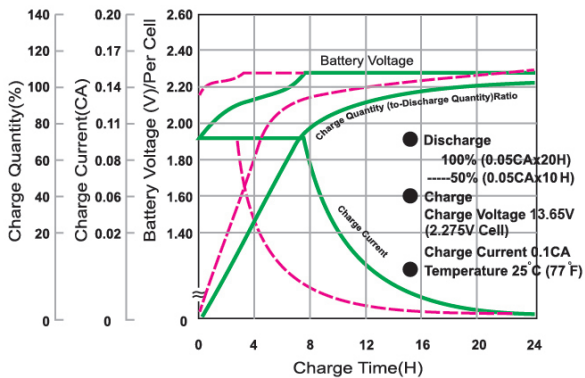
## Constant Current Discharge -Amp 25°C

F.V/Time	5min	10min	15min	30min	1Hour	2Hours	3Hours	4Hours	5Hours	10Hours	20Hours
1.65	119	85.8	67.2	42.3	31.7	24.6	14.8	10.8	7.15	4.27	1.95
1.70	114	80.8	63.3	40.0	29.7	23.5	14.4	10.5	6.86	4.11	1.87
1.80	89.5	67.6	54.0	36.8	27.4	22.9	13.8	10.0	6.54	3.87	1.76

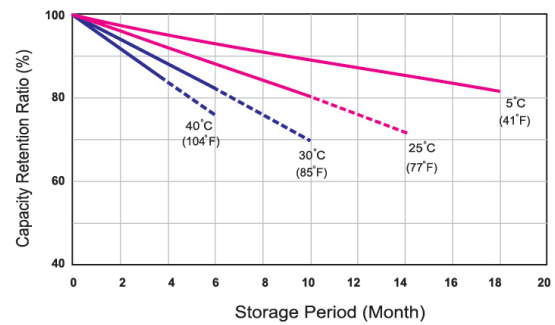
## Constant Power Discharge -Amp 25°C

Cutt off voltage V/cell	5min	10min	15min	30min	1Hour	2Hours	3Hours	4Hours	5Hours	10Hours	20Hours
1.60	219	158	125	77.6	58.2	49.3	28.0	19.9	13.4	7.47	3.23
1.65	209	154	122	77.0	57.8	47.7	27.1	19.7	13.2	7.41	3.21
1.70	203	149	117	74.7	55.7	46.3	26.7	19.3	12.8	7.25	3.11
1.75	189	140	113	74.5	54.8	46	26.5	19.2	12.7	7.18	3.05
1.80	167	129	104	70.8	52.8	45.2	26.1	18.8	12.5	6.94	2.96

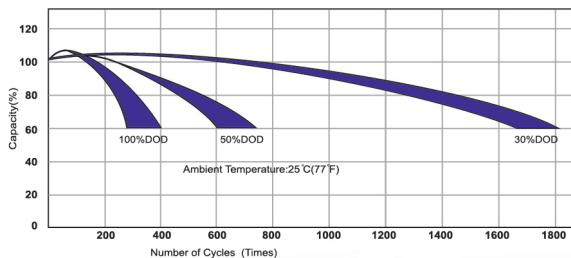
## Performance Curve



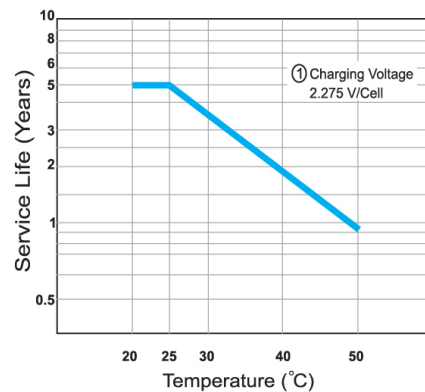
Charge Characteristics



Self-Discharge Characteristics



Cycle life in relation to depth of discharge



Temperature effects float life