

## PS40-12 (12V 40Ah)

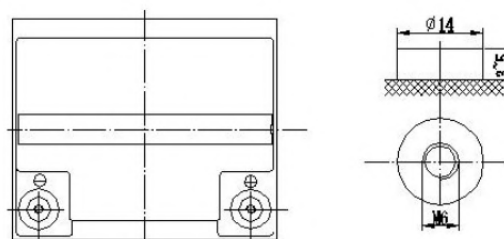
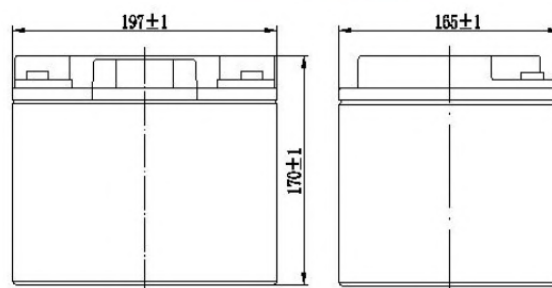
Valve Regulated Lead Acid batteries are designed with AGM (Absorbent Glass Mat) technology, high performance plates and electrolyte to gain extra power output for common power backup system applications widely used in the field of UPS and Emergency Lighting System.

### Application

- Alarm System
- Cable Television
- Power tools
- Emergency Power System
- Security System
- Medical Equipment
- UPS
- Communication Equipment
- Control Equipment
- Toys

### General Features

- Sealed and maintenance free operation
- Non-spillable construction design
- ABS containers and covers (UL94HB, UL94V-0) optional
- Safety valve installation for explosion proof
- High quality and high reliability
- Exceptional deep discharge recovery performance
- Low self discharge characteristic
- Flexibility design for multiple installation positions



### CONSTRUCTION

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

### TECHNOLOGY PARAMETER

Battery model	PS40 - 12			
Designed Floating Life	8-10 Years			
Capacity (25°C)	10hR(4.0A, 10.8V)		5hR(6.6A, 10.5V)	
	40Ah		33Ah	
Dimensions	Length	Width	Height	Total Height
	197±2mm	165±2mm	170±2mm	170±2mm
Approx. weight (±5%)	11.80Kg			
Internal resistance	Full charged at 25°C: Approx. 9.5mOhms			
Self discharge	3% of capacity declined per month at 25 °C (average)			
Capacity Affected by Temp.(10HR)	40 °C	25 °C	0 °C	-15 °C
	102%	100%	85%	65%
Charge Voltage (25°C)	Cycle use		Float use	
	14.4-14.7V(-30mV/°C), max. Current: 10A		13.6-13.8V(-20mV/°C)	

**Constant current discharge ratings-amperes at 25°C**

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	135	94.6	72.0	42.2	25.1	11.0	7.20	4.12	2.08
1.65V	128	90.4	68.5	40.6	24.2	10.7	7.00	4.09	2.06
1.70V	121	85.3	65.0	39.0	23.2	10.3	6.80	4.05	2.05
1.75V	113	80.2	61.5	37.4	22.3	9.87	6.60	4.02	2.03
1.80V	106	76.0	58.0	35.8	21.4	9.42	6.40	4.00	2.02

**Constant power discharge ratings-watts at 25°C**

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	243	171	131	77.2	46.1	20.4	13.4	7.71	3.90
1.65V	230	163	124	73.9	44.2	19.6	13.0	7.61	3.86
1.70V	215	153	117	70.6	42.3	18.9	12.5	7.49	3.81
1.75V	200	143	110	67.3	40.4	18.0	12.1	7.36	3.76
1.80V	186	135	103	64.1	38.5	17.1	11.6	7.18	3.71

