SigmasTek

SP6-36
(6V36AH/NB)

Specifications

Nominal Voltage	6V	
Nominal Capacity (20HR)	36AH	
Dimension	Length	159mm (6.25 inches)
	Width	85mm (3.35 inches)
	Height	165mm (6.50 inches)
	Total Height (with Terminal)	174mm (6.87 inches)
Approximate Weight	5.5 kg (12.1 lbs)	
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	NB / T2	
Rated Capacity	36.4AH	(20hr,1.75V/cell,25°C/77°F)
	34.4AH	(10hr,1.75V/cell,25°C/77°F)
	30.6AH	(5hr,1.75V/cell,25°C/77°F)
	30.3AH	(3hr,1.60V/cell,25°C/77°F)
	22.6AH	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	540A	
Internal Resistance	8mΩ	
Operating Temp. Range	Discharge:	-20°C (-4°F)~50°C (122°F)
	Charge:	-20°C (-4°F)~50°C (122°F)
	Storage:	-20°C (-4°F)~40°C (104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Container Material	ABS (Option: 94-HB & 94-V0 flame retardant case)	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	SigmasTek SP series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is recommended. For higher temperatures the time interval will be shorter.	

Applications

- Uninterruptible Power Supply (UPS)
- Electric wheelchairs, scooters, bikes
- Electronic apparatus and equipment
- Alarm and security systems
- Emergency first responder equipment
- Emergency lighting
- Medical devices
- Electric carts
- Telecom equipment
- Switchgear
- Solar power systems

MH47929

Constant Current Discharge (Amperes Per Battery) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	139.0	94.4	69.9	41.4	22.6	13.1	10.1	6.66	4.36	3.62	1.89
1.65V	126.0	86.9	65.3	39.2	22.4	12.6	9.84	6.45	4.32	3.58	1.88
1.70V	114.3	80.6	61.4	37.2	21.9	12.4	9.44	6.27	4.25	3.51	1.85
1.75V	103.8	73.9	57.6	35.7	21.2	12.1	9.18	6.12	4.19	3.44	1.82
1.80V	92.00	67.3	52.7	34.4	20.3	11.7	9.01	5.96	4.12	3.35	1.80
1.85V	68.60	52.6	43.6	29.2	18.1	10.7	8.38	5.55	3.89	3.25	1.78

Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

F.V. (V/cell) \ Discharge Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	230.4	160.4	122.3	75.5	42.5	24.9	19.4	12.8	8.52	7.11	3.71
1.65V	213.8	151.2	116.2	72.0	42.3	24.0	18.9	12.5	8.45	7.05	3.70
1.70V	196.7	141.4	110.2	68.8	41.7	23.8	18.2	12.2	8.34	6.92	6.65
1.75V	183.7	132.8	104.6	66.5	40.5	23.3	17.7	11.9	8.24	6.78	3.59
1.80V	166.5	122.8	97.00	64.6	38.9	22.5	17.5	11.6	8.12	6.62	3.56
1.85V	125.3	97.20	81.40	55.6	34.9	20.8	16.3	10.9	7.67	6.43	3.53

Dimensions

NB Terminal

Unit: mm (inches)

Cycle Service Life

Self Discharge Characteristics

Discharge Characteristics

Float Charging Characteristics

Temperature Effects in Relation to Battery Capacity

Temperature Effects on Long Term Float Life

Contact Information

SigmasTek
7651 W 100th Place
Bridgeview, IL 60455, USA

T: (888) 988-8290
www.sigmastek.com
order@sigmastek.com