## NP Series

### NP12040 12V40AH



NP Series VRLA battery uses AGM technology and high-purity raw materials. Its good floating back up and large current discharge performance makes it optimal and economical choice

# RECHARGEA VALVE REGULATED RECHARGE REALED LEAD-ACID BATTERY XK06-006-00392

#### **Benefits**

- Long life according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Easy installation and handling
- Vertical or horizontal installation

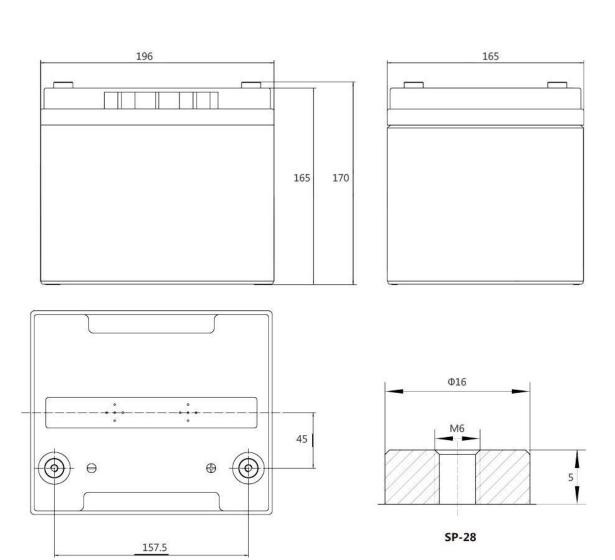
#### **Applications**

- UPS units
- Emergency power
- Starting generators
- EPS units

#### **Standards**

- IEC 60896-21/22
- JIS C8704-1/2
- EUROBAT guide

#### **Drawing**



#### **Specifications**

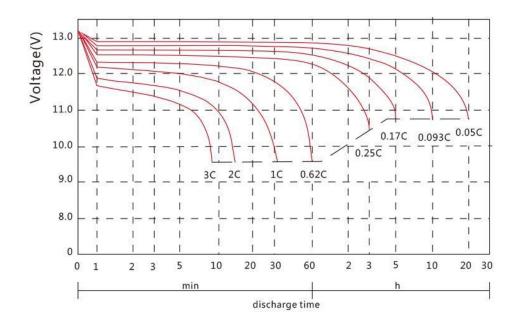
Battery Model	NP12040							
Design Life (years, 25°C)	10							
Canacity (Ab. 25°C)	20HR (2.12A, 1.80V)	10HR (4.20A, 1.80V)	5HR (7.14A, 1.75V)	1HR(24.44A, 1.70V)				
Capacity (Ah, 25°C)	42.4	42	35.7	24.44				
Dimensions (mm)	Length	Width	Height	Total Height				
Dimensions (mm)	196	165	170					
Approx. Weight (kg)		12	2.8					
Reference Internal Resistance (mΩ)		8.5 ( full cha	rged @ 25°C)					
Maximum Discharge Current (A/5 Sec.)		6.	30					
Self-Discharge (25°C)		≤2% pe	er month					
Charge Valtage (V/sell 25°C)	Cycle	e use	Float use					
Charge Voltage (V/cell, 25°C)	2.40 (-3.5mV/°C/cell), m	ax charge current: 12.6 A	rge current: 12.6 A 2.27 (-3.5mV/°C/ce					
Short Circuit Current (A)		14	00					

#### **Discharge Data**

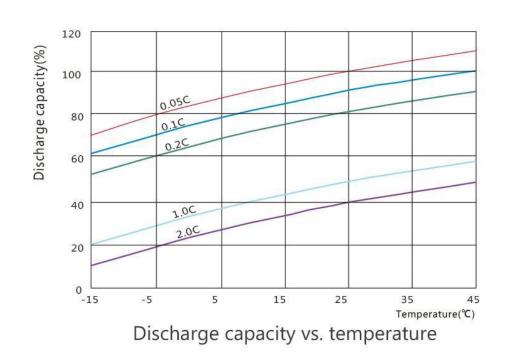
Constant Current Discharge Data (25°C, A)													
End	min						h						
Voltage (V/cell)	5	10	15	20	30	45	1	1.5	2	3	5	10	20
1.60	130.1	85.50	66.20	51.47	40.00	30.65	22.90	19.10	14.50	10.64	6.700	4.016	2.075
1.65	125.2	82.60	63.82	49.64	38.83	29.57	22.16	18.59	14.20	10.33	6.604	3.944	2.055
1.67	123.4	81.76	62.72	48.94	38.28	29.05	21.84	18.34	14.03	10.22	6.578	3.924	2.035
1.70	121.2	80.60	61.36	48.04	37.57	28.42	21.57	18.01	13.80	10.07	6.526	3.910	2.015
1.75	116.6	77.30	59.02	46.44	36.50	27.62	20.90	17.39	13.38	9.791	6.460	3.860	1.975
1.80	110.6	74.00	56.90	44.93	35.34	26.94	20.10	16.81	13.00	9.500	6.356	3.800	1.935

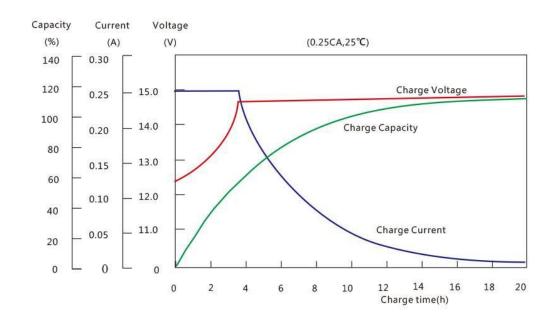
Constant Power Discharge Data (25°C, W/cell)													
End Voltage	min						h						
(V/cell)	5	10	15	20	30	45	1	1.5	2	3	5	10	20
1.60	239.4	165.7	130.0	100.6	82.65	61.99	45.55	36.91	28.60	20.68	13.20	8.014	4.214
1.65	231.5	160.9	126.4	97.83	80.74	60.40	44.49	36.10	28.20	20.38	13.03	7.923	4.172
1.67	228.5	158.8	125.1	96.75	80.19	59.68	44.01	36.02	28.00	20.17	12.99	7.885	4.150
1.70	224.6	156.1	123.4	95.28	79.31	58.73	43.40	35.80	27.80	20.07	12.90	7.841	4.123
1.75	218.4	151.2	120.2	92.74	77.32	57.38	42.22	35.06	27.00	19.84	12.70	7.747	4.064
1.80	209.2	144.6	117.5	90.23	75.18	55.95	40.90	34.28	26.50	19.62	12.50	7.649	3.976

#### **Performance Curve**



Discharge voltage vs. discharge time





Charge capacity vs. charge time

