

# Access System Uninterruptible Power Supply (12V/3 Amp)

## Access System Uninterruptible Power Supply (DC12V / 3 Amp)

**Model: SIHD1203-01KB**

Input: 190-240V AC @ 50-60Hz

Output voltage: 12V±15% DC

Output Current: 3Amp

Over-current Protection: 3.6A±5%

Ripple & Noise: ≤100mV

Efficiency ≥85%

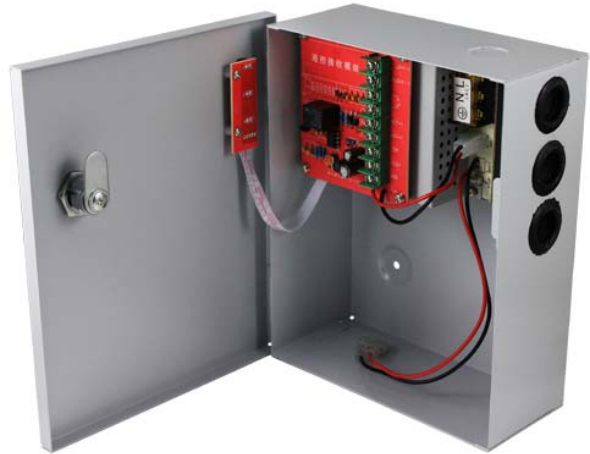
Charge Voltage: 13.5V

Charge Current (Max.): 1Amp

Battery Under-voltage Protection: 10V

Enclosure Dimensions: 203\*163\*74mm

Weight: 1.2kg

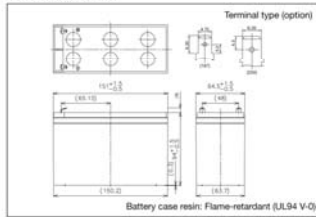


### VRLA battery



For standby power supplies, Expected trickle design life: 10 - 12 years at 20°C according to Eurobat.

#### Dimensions (mm)



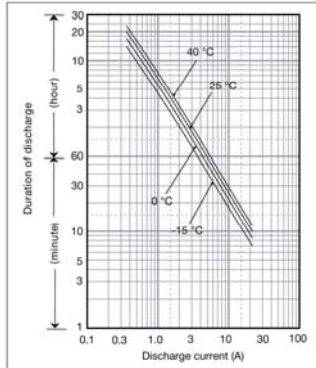
#### Specifications

Nominal voltage	12V	
Nominal capacity (20 hour rate)	7.2Ah	
Dimensions	Length	151mm
	Width	64.5mm
	Height	94mm
	Total Height	100mm
Approx. mass	2.5kg	
Terminal	Faston 187 or Faston 250 with hole	

#### Characteristics

Capacity (25°C)	20 hour rate	7.2Ah
	10 hour rate	6.8Ah
Internal resistance	20 hour rate	6.5Ah
	1 hour rate	4.9Ah
	Fully charged battery (25°C)	21mΩ
Temperature dependency of capacity (20 hour rate)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self discharge (25°C)	After 3 months	91%
	After 6 months	82%
	After 12 months	64%

#### Duration of discharge vs Discharge current



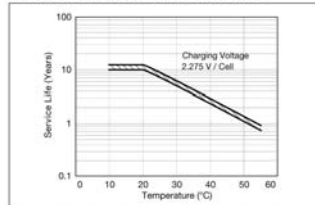
#### Charging Method

Trickle Use	Control voltage: 13.6 - 13.8V; Initial current: 1.05A or smaller
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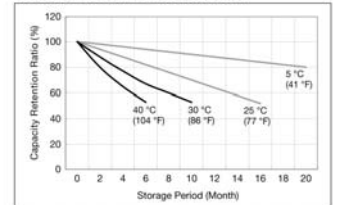
#### Cut off voltage

Discharge current	0.36A - 1.44A	1.44A - 3.6A	3.6A - 7.2A	7.2A - 14.4A	14.4A - 21.6A
Cut off voltage (V)	10.5	10.2	9.9	9.3	8.7

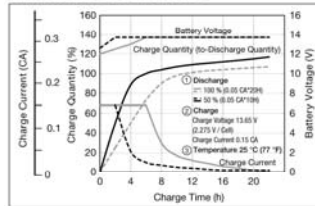
#### Influence of Temperature on Trickle life



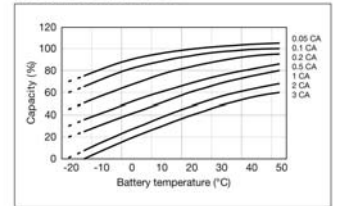
#### Residual capacity vs storage period



#### Constant-voltage and constant-current charge characteristics for Trickle use



#### Discharge capacity by temperature and by discharge current



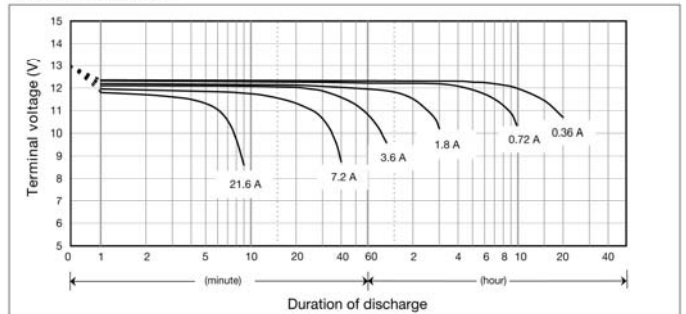
#### Watt Table

Ca-erv	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	433	341	223	170	143	106	75.1	60.1	41.3	32.0	23.8	18.3	13.1	12.1	8.04	4.36	3.64
9.9V	401	320	218	169	140	105	74.7	60.1	40.5	31.7	23.7	18.2	13.0	12.1	8.00	4.34	3.62
10.2V	370	300	213	166	138	104	74.0	58.9	39.7	30.9	23.4	18.0	14.9	12.0	7.92	4.33	3.61
10.5V	329	269	197	154	131	102	72.8	57.7	38.9	29.8	23.1	17.9	14.7	11.8	7.88	4.32	3.60
10.8V	278	237	176	144	128	98	71.6	56.5	37.8	28.4	22.6	17.7	14.4	11.7	7.80	4.30	3.58

#### Ampere Table

Ca-erv	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	38.9	30.6	19.8	14.8	12.3	9.1	6.4	5.1	3.50	2.70	2.00	1.53	1.26	1.012	0.670	0.363	0.303
9.9V	36.1	28.7	19.5	14.7	12.1	9.0	6.4	5.1	3.43	2.68	1.99	1.52	1.25	1.008	0.667	0.362	0.302
10.2V	33.3	26.9	19.0	14.4	11.9	8.9	6.3	5.0	3.36	2.61	1.97	1.51	1.24	1.000	0.660	0.361	0.301
10.5V	29.6	24.1	17.6	13.4	11.3	8.7	6.2	4.9	3.29	2.52	1.94	1.50	1.23	0.988	0.657	0.360	0.300
10.8V	25.0	21.3	15.7	12.5	11.0	8.4	6.1	4.8	3.20	2.40	1.90	1.48	1.20	0.972	0.650	0.358	0.298

#### Discharge characteristics



NewDVR (S) Pte Ltd - VRM Production Korea

Blk. 153 Bukit Batok St.11 # 03-296, Singapore 650153, Fax: 65. 62343917, Tel: S'pore 65.6469 4594, Korea 82.70 7893 5923

Skype name: newdvr.vincent | QQ: 2939429242 | Wechat: VRM-Production-Korea

Website: [www.newdvr.com](http://www.newdvr.com) | [www.ecogreen.sg](http://www.ecogreen.sg) | Email: [vinooi@singnet.com.sg](mailto:vinooi@singnet.com.sg) | [newdvr@singnet.com.sg](mailto:newdvr@singnet.com.sg)