

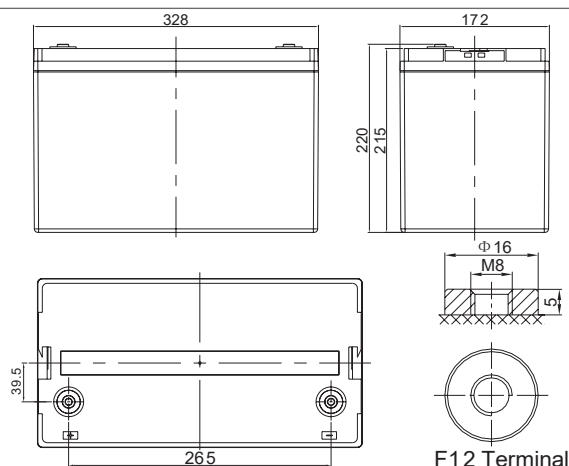


PCE HR12-420W

12V/420W

- HR (High Rate) series Valve Regulated Lead Acid (VRLA) battery
- Designed for heavy load discharge applications
- 15 years design life in float service
- Strong grids, thick plate and specially designed active material
- Lower I.R, lower self discharge rate, high power, and longer service life
- 30% more power output than the standard series
- Suitable for high power standby used, such as datacenter, UPS, EPS etc.

LAYOUT



Length: 328 ± 2mm **Width:** 172 ± 2mm **Height:** 215 ± 2mm
Total Height: 220 ± 2 mm

TECHNICALS

Constant Current Discharge Characteristics: A (25°C)								
F.V./Time	5min	8min	10min	15min	20min	30min	60min	90min
1.60 V	377.7	330.0	298.3	232.2	189.1	139.4	80.66	57.89
1.67 V	342.7	302.6	275.7	216.6	177.7	131.9	76.95	55.53
1.70 V	328.2	290.9	265.8	210.0	172.8	128.7	75.42	54.46
1.75 V	303.0	271.0	249.2	198.6	164.1	123.3	72.79	52.74
1.80 V	277.6	251.0	232.6	188.0	156.4	118.0	70.17	51.03
1.85 V	238.3	213.8	197.0	161.6	135.8	104.4	63.39	46.52

Constant Current Discharge Characteristics: W/Cell (25°C)								
F.V./Time	5min	8min	10min	15min	20min	30min	60min	90min
1.60 V	694.0	614.6	561.1	442.7	363.4	270.8	151.5	109.6
1.67 V	645.9	576.6	529.5	420.0	346.9	259.7	145.8	105.9
1.70 V	624.7	559.3	514.7	410.2	339.4	254.5	143.4	104.4
1.75 V	586.2	528.5	488.9	392.5	325.8	246.1	139.5	101.6
1.80 V	545.6	496.1	461.7	375.0	313.5	237.1	135.3	98.84
1.85 V	475.3	428.5	396.4	326.0	274.7	211.8	123.1	90.91

* Product specifications are subject to change without prior notice.

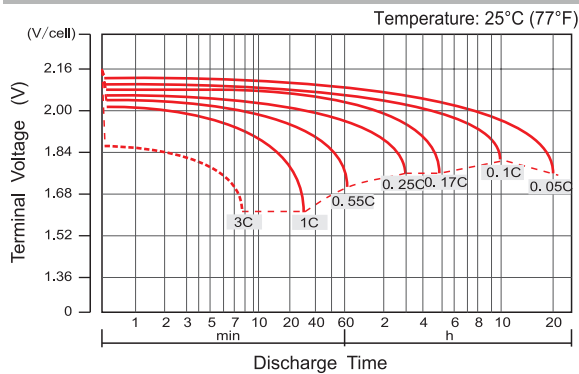
SPECIFICATIONS

Model	HR-12-380
Rated Voltage	12V
Nominal Capacity	420W@15min-rate to 1.67V per cell @25°C
Short Circuit Current	2700A
Max. Discharging Current	1100A (5 sec)
Max. Charging Current	33A
Self Discharge	≤3% per month at 25°C
Operating Temp. Range	
Discharge	-20°C ~ 60° C
Charge	0°C ~ 50°C
Storage	-20° ~ 60°C
Reference Capacity	C20 110.0Ah
Standby Use Voltage	13.5 V ~ 13.62 V at 25°C Temp. Comp. -3mV/cell/°C
Equalization Voltage	14.10 V ~ 14.4 V at 25°C Temp. Comp. -4mV/cell/°C
Internal Resistance (25°C)	≤5.0 mΩ
Nominal Operating Temp. Range	25°C ± 5°C
Approx. Weight	Approx. 33.5Kg (Tolerance ± 5%)
Terminal	Default F12(M8)l
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

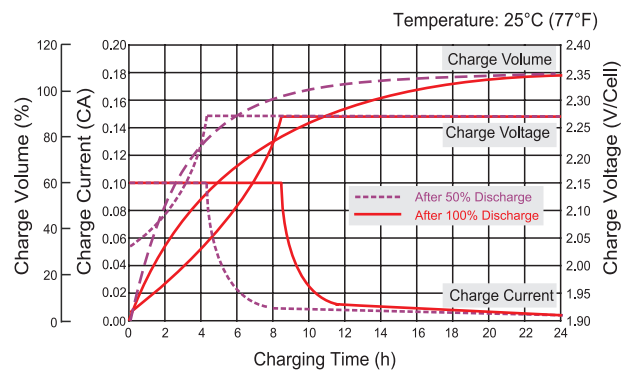


CHARACTERISTICS

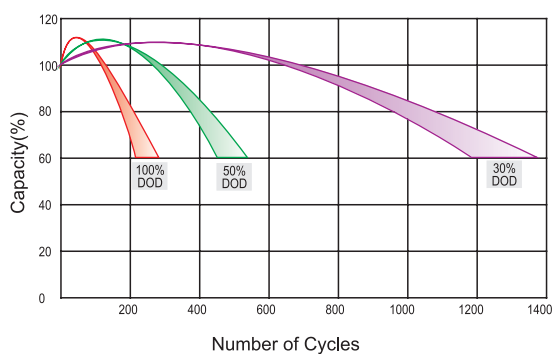
Discharge Characteristics Curve



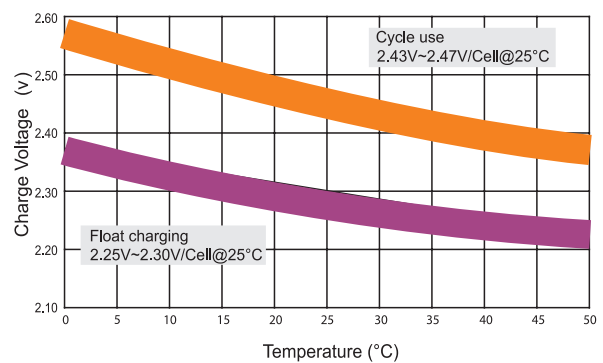
Charge Characteristic Curve For Standby Use(IU)



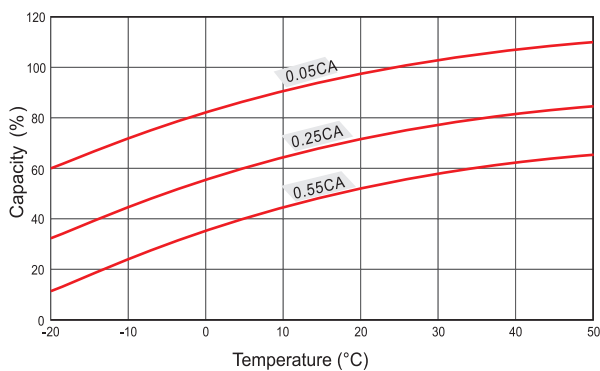
Cycle Life In Relation To Depth of Discharge



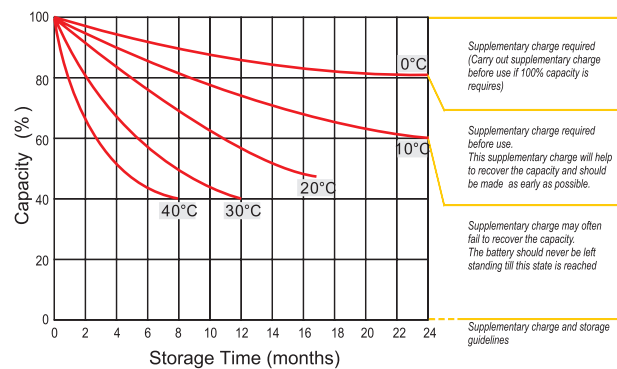
Relationship Between Charging Voltage and Temperature



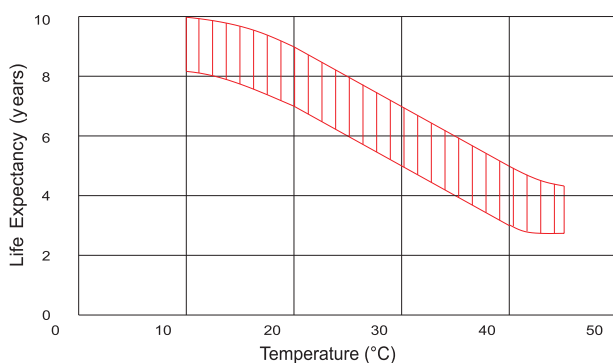
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature on long term life



Life Characteristics Of Standby Use

