



PSD6-424

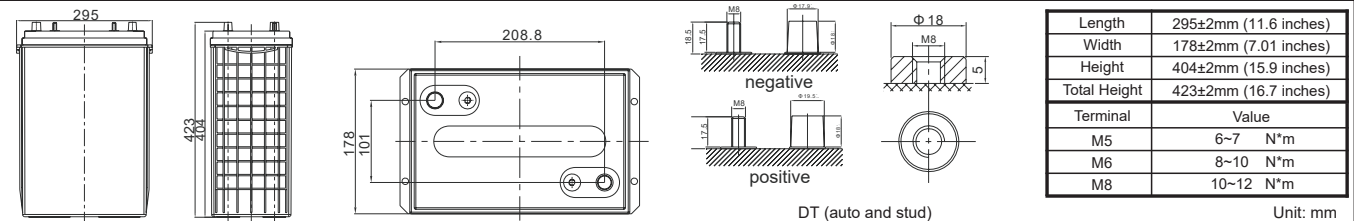


Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	400Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 57.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 1.8 mΩ
Terminal	DT (auto and stud)
Max. Discharge Current	4000A (5 sec)
Cold Cranking Ampere(CCA)	800A
Maxi. Charging Current	120.0A
Reference Capacity	C3 309.9AH
	C5 349.5AH
	C10 400.0AH
	C20 424.0AH
Float Charging Voltage	6.8 V~6.9 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.3 V~7.4 V @ 25 °C° Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C
	Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	PSDC Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Battery Outfitters' Pro-Series Deep Cycle batteries are designed for use in industrial equipment, golf carts, and more. The PSD line delivers superior performance in applications where true deep cycle quality is required. Benefits include durable construction to withstand vibration, extreme temperature, and frequent use in high demand applications. With superior shelf life prior to deployment this product offers longevity beyond 1,200 cycles at 50% DOD. Alongside the competition Pro-Series Deep Cycle provides extended capacity and superior lifespan.

Dimensions



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	424.5	246.8	145.8	112.9	88.8	75.5	50.8	42.2	22.1
1.65V	407.5	238.4	141.1	109.4	86.4	73.6	50.2	41.7	21.7
1.70V	389.5	230.6	136.5	106.5	84.0	71.7	49.4	41.1	21.5
1.75V	372.3	222.2	131.7	103.3	81.9	69.9	48.7	40.5	21.2
1.80V	355.8	213.7	127.0	100.1	79.5	68.1	47.9	40.0	21.0
1.85V	306.5	191.7	116.3	92.5	73.9	63.5	45.0	37.7	19.9

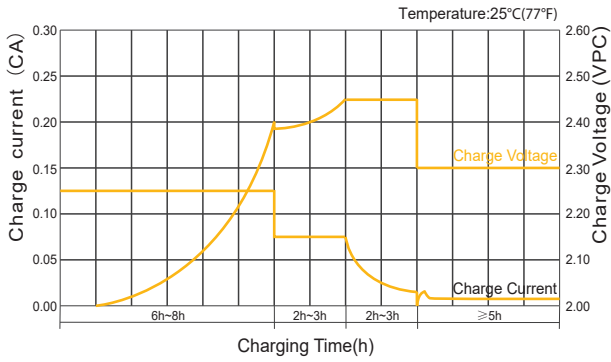
Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	770.9	463.9	276.2	215.7	170.4	145.6	99.1	83.0	43.5
1.65V	747.9	450.5	268.7	209.9	166.4	142.4	98.2	82.1	42.8
1.70V	722.0	438.6	261.3	205.1	162.5	139.1	96.9	80.9	42.4
1.75V	697.2	425.1	253.4	199.8	158.9	136.1	95.8	80.0	41.9
1.80V	673.1	411.2	245.5	194.4	154.9	133.1	94.4	79.0	41.5
1.85V	585.5	371.1	226.2	180.5	144.6	124.5	88.8	74.5	39.5

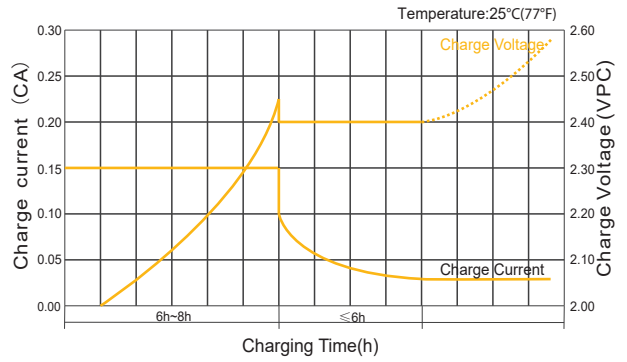
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C10 should reach 95% after the first cycle and 100% after the third cycle. If F22 terminal is selected and the discharge current is more than 0.25C, the threaded terminal of terminal F22 shall not be used in connection, but the lead pole shall be connected.

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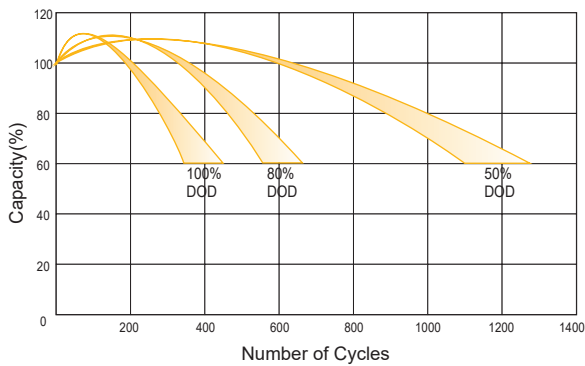
Charge Characteristic Curve for Cycle Use(IUU)



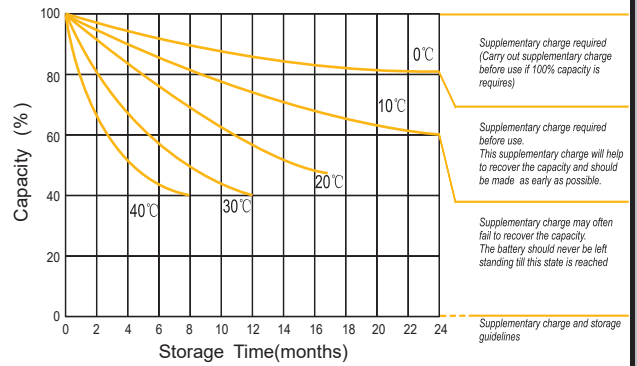
Charge Characteristic Curve For Cycle Use(IIU)



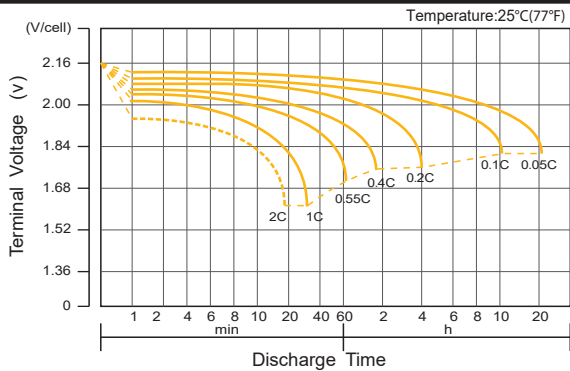
Cycle Life in Relation to Depth of Discharge



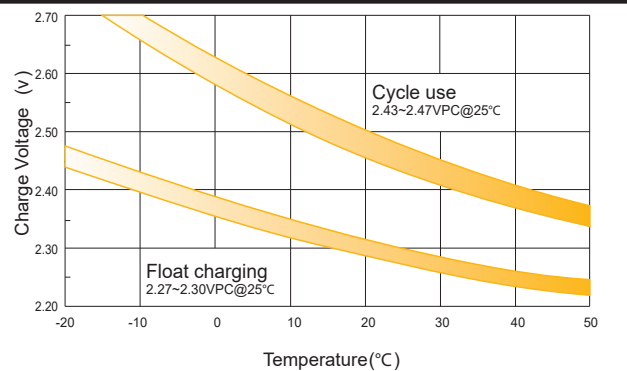
Storage Characteristics



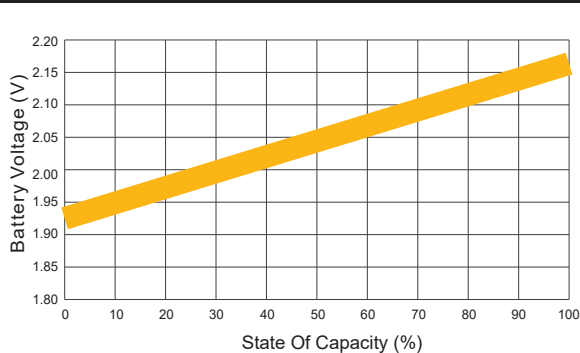
Discharge Characteristics Curve



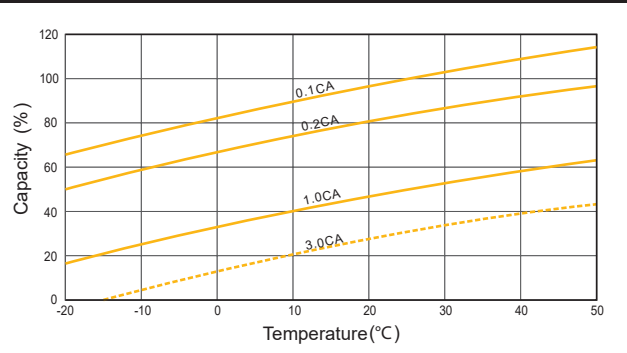
Relationship Between Charging Voltage and Temperature



Relationship of OCV And State of Charge(20°C)



Temperature Effects on Capacity



(Note) All above information is subject to change without prior notice. Pro-Series reserves the right to explain and update with current information.