



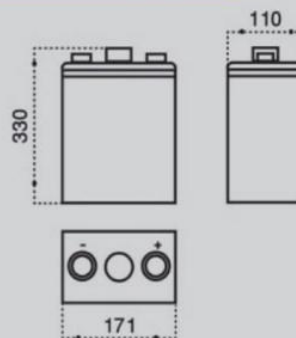
شرکت فنی و مهندسی میپسا

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2 SB 200 (2V 200Ah)



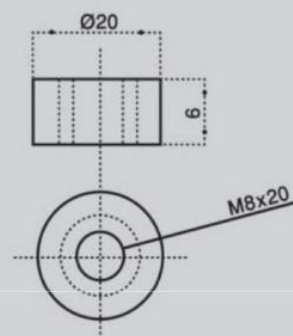
Outer Dimensions (mm)



Specifications

Nominal Voltage		2 V
Rated Capacity (10 Hour Rate)		200 Ah
Dimensions	Total Height	365 mm
	Height	330 mm
	Length	171 mm
	Width	110 mm
Weight Approx (±2.5%)		13.35 Kg

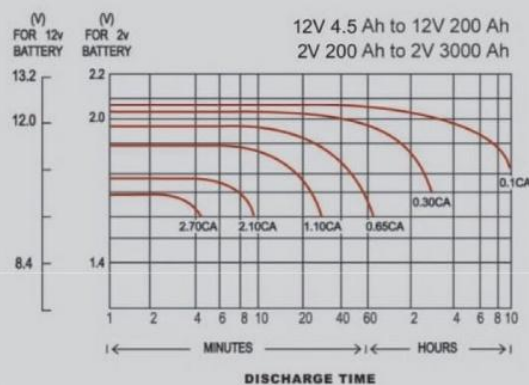
Terminal Type (mm)



Characteristics

Capacity 25°C (77°F)	10 hour-rate 3 hour-rate 1 hour-rate	200 Ah 150 Ah 110 Ah
Internal Resistance	Full Charge Battery at 25°C (77°F)	1 mΩ
Capacity Affected by Temperature (10 Hour Rate)	35°C 25°C 0°C -10°C	212 Ah 200 Ah 170 Ah 150 Ah
Self-Discharge at 25°C (77°F)	Capacity After The 3 Month of Storage Capacity After The 6 Month of Storage Capacity After The 12 Month of Storage	91 % 82 % 64 %
Charge Constant Voltage	Cycle	Voltage 2.40-2.45 / Cell
	Float	Voltage 2.23-2.25 / Cell

Discharge Curves 25°C (77°F)



Discharge and Final Voltage Table According to IEC60896-21 Standard

Discharge time	0.25 h	1 h	3 h	5 h	8 h	10 h
Final voltage	1.60 VPC	1.60 VPC	1.70 VPC	1.73 VPC	1.75 VPC	1.80 VPC

Constant Current Discharge Table at 25°C (77°F) Based on IEC60896-21 Standard

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	184	119	73	52	36	25	20	10

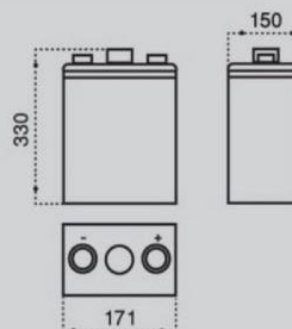
Constant Current Discharge Table at 25°C (77°F) Based on Final Voltage 1.80 V/Cell

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	170	110	68	50	35	24	20	10.5

2 SB 250 (2V 250Ah)



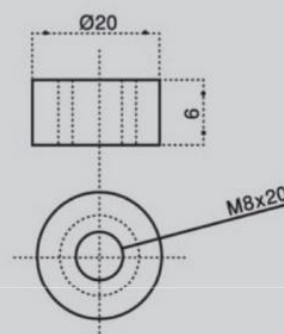
Outer Dimensions (mm)



Specifications

Nominal Voltage		2 V
Rated Capacity (10 Hour Rate)		250 Ah
Dimensions	Total Height	365 mm
	Height	330 mm
	Length	171 mm
	Width	150 mm
Weight Approx (±2.5%)		16 Kg

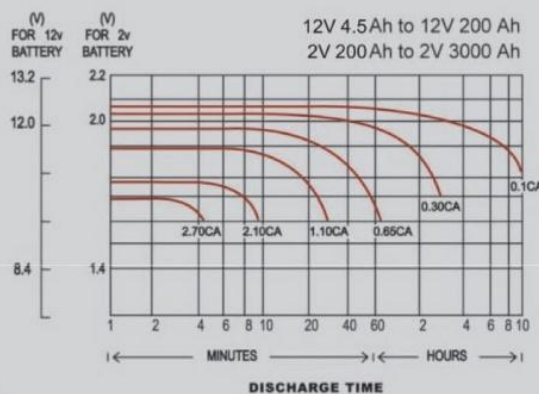
Terminal Type (mm)



Characteristics

Capacity 25°C (77°F)		10 hour-rate 3 hour-rate 1 hour-rate	250 Ah 186 Ah 137 Ah
Internal Resistance		Full Charge Battery at 25°C (77°F)	0.8 mΩ
Capacity Affected by Temperature (10 Hour Rate)		35°C	265 Ah
		25°C	250 Ah
		0°C	212 Ah
		-10°C	188 Ah
Self-Discharge at 25°C (77°F)		Capacity After The 3 Month of Storage	91 %
		Capacity After The 6 Month of Storage	82 %
		Capacity After The 12 Month of Storage	64 %
Charge Constant Voltage	Cycle	Voltage 2.40-2.45 / Cell	
	Float	Voltage 2.23-2.25 / Cell	

Discharge Curves 25°C (77°F)



Discharge and Final Voltage Table According to IEC60896-21 Standard

Discharge time	0.25 h	1 h	3 h	5 h	8 h	10 h
Final voltage	1.60 VPC	1.60 VPC	1.70 VPC	1.73 VPC	1.75 VPC	1.80 VPC

Constant Current Discharge Table at 25°C (77°F) Based on IEC60896-21 Standard

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	230	148	92	64	43	31	25	12

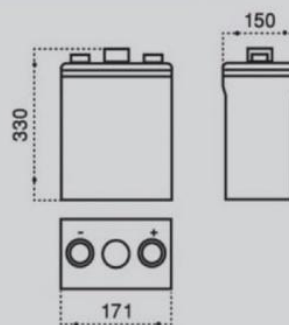
Constant Current Discharge Table at 25°C (77°F) Based on Final Voltage 1.80 V/Cell

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	212	137	85	62	42	30	25	13

2 SB 300 (2V 300Ah)



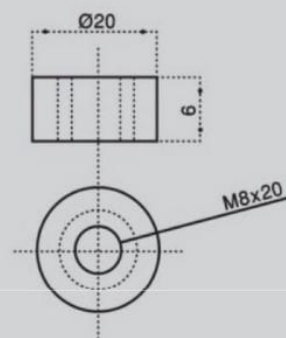
Outer Dimensions (mm)



Specifications

Nominal Voltage		2 V
Rated Capacity (10 Hour Rate)		300 Ah
Dimensions	Total Height	365 mm
	Height	330 mm
	Length	171 mm
	Width	150 mm
Weight Approx (±2.5%)		20 Kg

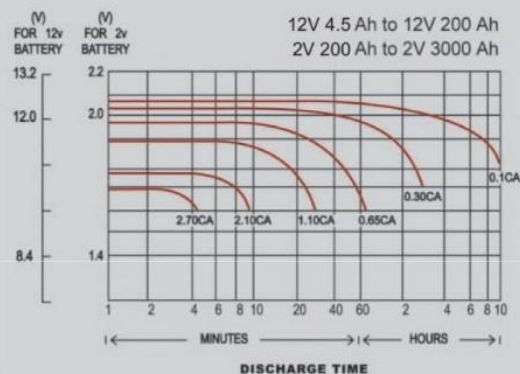
Terminal Type (mm)



Characteristics

Capacity 25°C (77°F)		10 hour-rate 3 hour-rate 1 hour-rate	300 Ah 225 Ah 165 Ah
Internal Resistance		Full Charge Battery at 25°C (77°F)	0.7 mΩ
Capacity Affected by Temperature (10 Hour Rate)		35°C	315 Ah
		25°C	300 Ah
		0°C	257 Ah
		-10°C	226 Ah
Self-Discharge at 25°C (77°F)		Capacity After The 3 Month of Storage	91 %
		Capacity After The 6 Month of Storage	82 %
		Capacity After The 12 Month of Storage	64 %
Charge Constant Voltage	Cycle	Voltage 2.40-2.45 / Cell	
	Float	Voltage 2.23-2.25 / Cell	

Discharge Curves 25°C (77°F)



Discharge and Final Voltage Table According to IEC60896-21 Standard

Discharge time	0.25 h	1 h	3 h	5 h	8 h	10 h
Final voltage	1.60 VPC	1.60 VPC	1.70 VPC	1.73 VPC	1.75 VPC	1.80 VPC

Constant Current Discharge Table at 25°C (77°F) Based on IEC60896-21 Standard

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	276	177	109	80	51	37	30	15

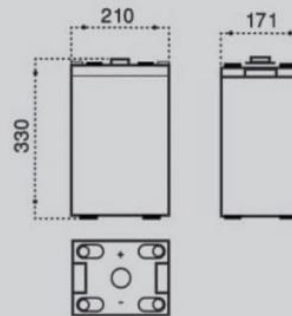
Constant Current Discharge Table at 25°C (77°F) Based on Final Voltage 1.80 V/Cell

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	255	165	102	75	50	36	30	15.5

2 SB 350 (2V 350Ah)



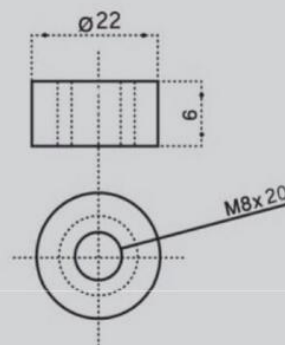
Outer Dimensions (mm)



Specifications

Nominal Voltage		2 V
Rated Capacity (10 Hour Rate)		350 Ah
Dimensions	Total Height	365 mm
	Height	330 mm
	Length	210 mm
	Width	171 mm
Weight Approx (±2.5%)		26 Kg

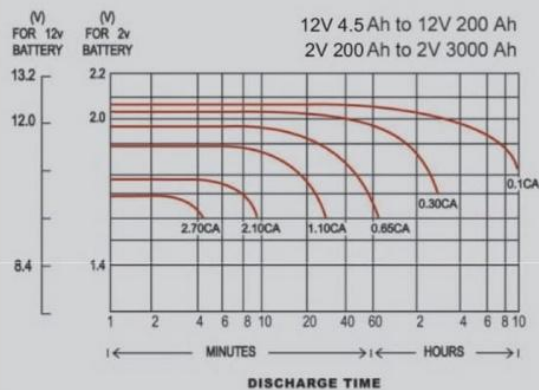
Terminal Type (mm)



Characteristics

Capacity 25°C (77°F)	10 hour-rate 3 hour-rate 1 hour-rate	350 Ah 261 Ah 192 Ah
Internal Resistance	Full Charge Battery at 25°C (77°F)	0.7 mΩ
Capacity Affected by Temperature (10 Hour Rate)	35°C 25°C 0°C -10°C	371 Ah 350 Ah 302 Ah 267 Ah
Self-Discharge at 25°C (77°F)	Capacity After The 3 Month of Storage Capacity After The 6 Month of Storage Capacity After The 12 Month of Storage	91 % 82 % 64 %
Charge Constant Voltage	Cycle	Voltage 2.40-2.45 / Cell
	Float	Voltage 2.23-2.25 / Cell

Discharge Curves 25°C (77°F)



Discharge and Final Voltage Table According to IEC60896-21 Standard

Discharge time	0.25 h	1 h	3 h	5 h	8 h	10 h
Final voltage	1.60 VPC	1.60 VPC	1.70 VPC	1.73 VPC	1.75 VPC	1.80 VPC

Constant Current Discharge Table at 25°C (77°F) Based on IEC60896-21 Standard

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	320	207	131	90	63	45	35	17

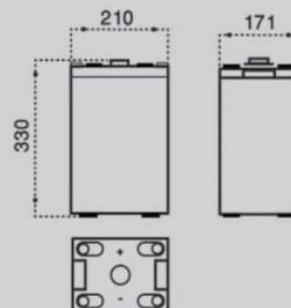
Constant Current Discharge Table at 25°C (77°F) Based on Final Voltage 1.80 V/Cell

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	297	192	119	87	61	42	35	18

2 SB 420 (2V 420Ah)



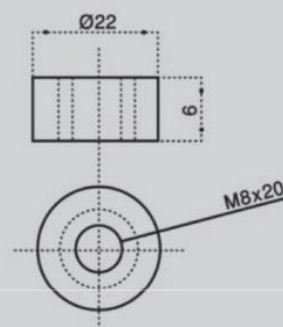
Outer Dimensions (mm)



Specifications

Nominal Voltage		2 V
Rated Capacity (10 Hour Rate)		420 Ah
Dimensions	Total Height	365 mm
	Height	330 mm
	Length	210 mm
	Width	171 mm
Weight Approx (±2.5%)		28 Kg

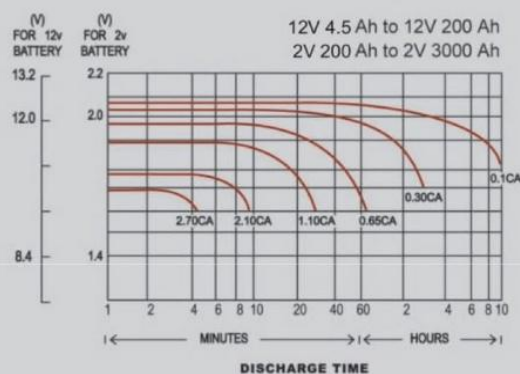
Terminal Type (mm)



Characteristics

Capacity 25°C (77°F)		10 hour-rate 3 hour-rate 1 hour-rate	420 Ah 315 Ah 231 Ah
Internal Resistance		Full Charge Battery at 25°C (77°F)	0.5 mΩ
Capacity Affected by Temperature (10 Hour Rate)		35°C	445 Ah
		25°C	420 Ah
		0°C	357 Ah
		-10°C	315 Ah
Self-Discharge at 25°C (77°F)		Capacity After The 3 Month of Storage	91 %
		Capacity After The 6 Month of Storage	82 %
		Capacity After The 12 Month of Storage	64 %
Charge Constant Voltage	Cycle	Voltage 2.40-2.45 / Cell	
	Float	Voltage 2.23-2.25 / Cell	

Discharge Curves 25°C (77°F)



Discharge and Final Voltage Table According to IEC60896-21 Standard

Discharge time	0.25 h	1 h	3 h	5 h	8 h	10 h
Final voltage	1.60 VPC	1.60 VPC	1.70 VPC	1.73 VPC	1.75 VPC	1.80 VPC

Constant Current Discharge Table at 25°C (77°F) Based on IEC60896-21 Standard

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	385	251	153	109	74	53	42	21

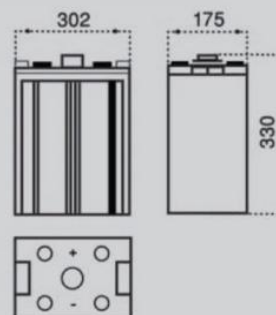
Constant Current Discharge Table at 25°C (77°F) Based on Final Voltage 1.80 V/Cell

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	357	231	142	105	73	50	42	22

2 SB 600 (2V 600Ah)



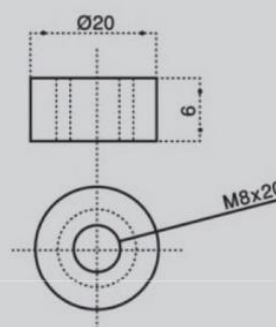
Outer Dimensions (mm)



Specifications

Nominal Voltage		2 V
Rated Capacity (10 Hour Rate)		600 Ah
Dimensions	Total Height	367 mm
	Height	330 mm
	Length	302 mm
	Width	175 mm
Weight Approx (±2.5%)		40 Kg

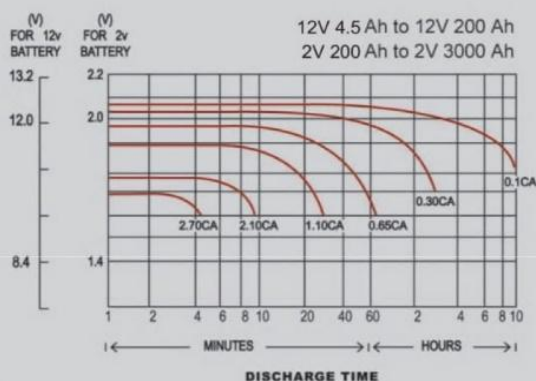
Terminal Type (mm)



Characteristics

Capacity 25°C (77°F)	10 hour-rate 3 hour-rate 1 hour-rate	600 Ah 450 Ah 330 Ah
Internal Resistance	Full Charge Battery at 25°C (77°F)	0.45 mΩ
Capacity Affected by Temperature (10 Hour Rate)	35°C 25°C 0°C -10°C	636 Ah 600 Ah 510 Ah 450 Ah
Self-Discharge at 25°C (77°F)	Capacity After The 3 Month of Storage Capacity After The 6 Month of Storage Capacity After The 12 Month of Storage	91 % 82 % 64 %
Charge Constant Voltage	Cycle	Voltage 2.40-2.45 / Cell
	Float	Voltage 2.23-2.25 / Cell

Discharge Curves 25°C (77°F)



Discharge and Final Voltage Table According to IEC60896-21 Standard

Discharge time	0.25 h	1 h	3 h	5 h	8 h	10 h
Final voltage	1.60 VPC	1.60 VPC	1.70 VPC	1.73 VPC	1.75 VPC	1.80 VPC

Constant Current Discharge Table at 25°C (77°F) Based on IEC60896-21 Standard

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	552	355	219	157	106	75	60	31

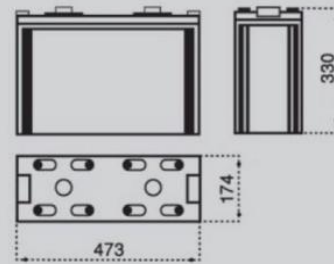
Constant Current Discharge Table at 25°C (77°F) Based on Final Voltage 1.80 V/Cell

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	510	330	204	150	105	72	60	33

2 SB 1000 (2V 1000Ah)



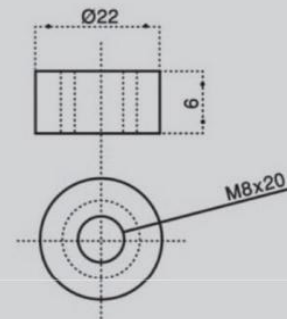
Outer Dimensions (mm)



Specifications

Nominal Voltage		2 V
Rated Capacity (10 Hour Rate)		1000 Ah
Dimensions	Total Height	365 mm
	Height	330 mm
	Length	473 mm
	Width	174 mm
Weight Approx (±2.5%)		63 Kg

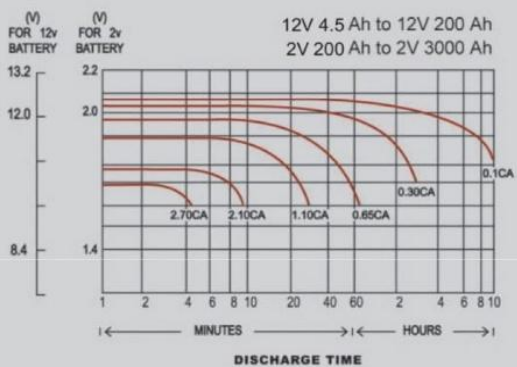
Terminal Type (mm)



Characteristics

Capacity 25°C (77°F)	10 hour-rate 3 hour-rate 1 hour-rate	1000 Ah 738 Ah 550 Ah
Internal Resistance	Full Charge Battery at 25°C (77°F)	0.3 mΩ
Capacity Affected by Temperature (10 Hour Rate)	35°C 25°C 0°C -10°C	1060 Ah 1000 Ah 850 Ah 750 Ah
Self-Discharge at 25°C (77°F)	Capacity After The 3 Month of Storage Capacity After The 6 Month of Storage Capacity After The 12 Month of Storage	91 % 82 % 64 %
Charge Constant Voltage	Cycle	Voltage 2.40-2.45 / Cell
	Float	Voltage 2.23-2.25 / Cell

Discharge Curves 25°C (77°F)



Discharge and Final Voltage Table According to IEC60896-21 Standard

Discharge time	0.25 h	1 h	3 h	5 h	8 h	10 h
Final voltage	1.60 VPC	1.60 VPC	1.70 VPC	1.73 VPC	1.75 VPC	1.80 VPC

Constant Current Discharge Table at 25°C (77°F) Based on IEC60896-21 Standard

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	869	595	368	266	178	125	100	52

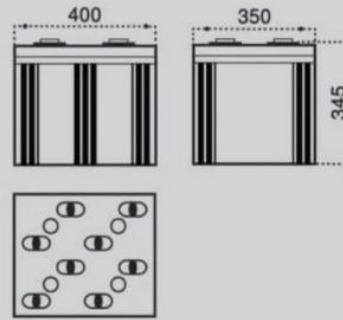
Constant Current Discharge Table at 25°C (77°F) Based on Final Voltage 1.80 V/Cell

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	812	550	340	246	175	120	100	55

2 SB 1500 (2V 1500Ah)



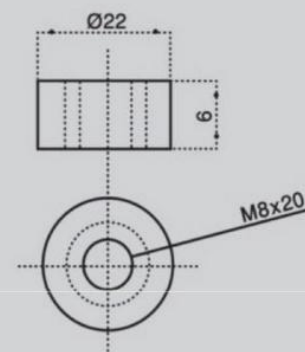
Outer Dimensions (mm)



Specifications

Nominal Voltage		2 V
Rated Capacity (10 Hour Rate)		1500 Ah
Dimensions	Total Height	382 mm
	Height	345 mm
	Length	400 mm
	Width	350 mm
Weight Approx (±2.5%)		115 Kg

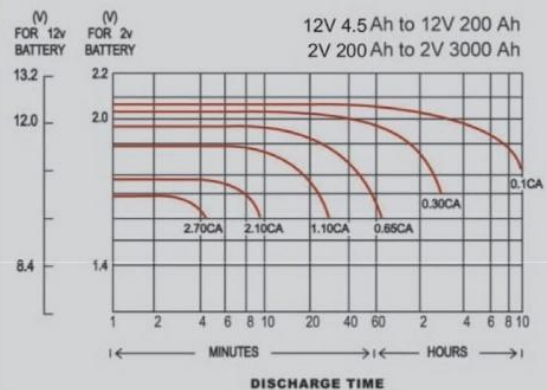
Terminal Type (mm)



Characteristics

Capacity 25°C (77°F)	10 hour-rate 3 hour-rate 1 hour-rate	1500 Ah 1125 Ah 825 Ah
Internal Resistance	Full Charge Battery at 25°C (77°F)	0.2 mΩ
Capacity Affected by Temperature (10 Hour Rate)	35°C 25°C 0°C -10°C	1590 Ah 1500 Ah 1275 Ah 1125 Ah
Self-Discharge at 25°C (77°F)	Capacity After The 3 Month of Storage Capacity After The 6 Month of Storage Capacity After The 12 Month of Storage	91 % 82 % 64 %
Charge Constant Voltage	Cycle	Voltage 2.40-2.45 / Cell
	Float	Voltage 2.23-2.25 / Cell

Discharge Curves 25°C (77°F)



Discharge and Final Voltage Table According to IEC60896-21 Standard

Discharge time	0.25 h	1 h	3 h	5 h	8 h	10 h
Final voltage	1.60 VPC	1.60 VPC	1.70 VPC	1.73 VPC	1.75 VPC	1.80 VPC

Constant Current Discharge Table at 25°C (77°F) Based on IEC60896-21 Standard

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	1379	891	550	401	268	189	150	78

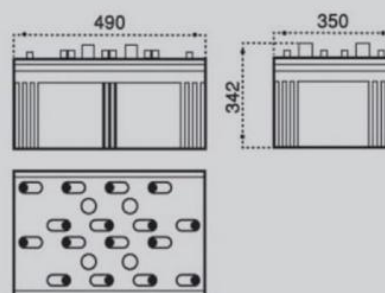
Constant Current Discharge Table at 25°C (77°F) Based on Final Voltage 1.80 V/Cell

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	1275	825	510	375	262	180	150	82

2 SB 2000 (2V 2000Ah)



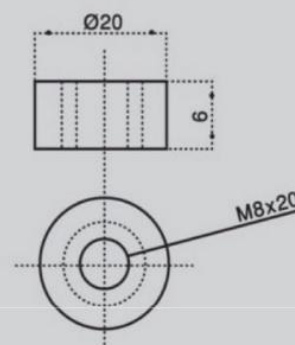
Outer Dimensions (mm)



Specifications

Nominal Voltage		2 V
Rated Capacity (10 Hour Rate)		2000 Ah
Dimensions	Total Height	382 mm
	Height	342 mm
	Length	490 mm
	Width	350 mm
Weight Approx (±2.5%)		135 Kg

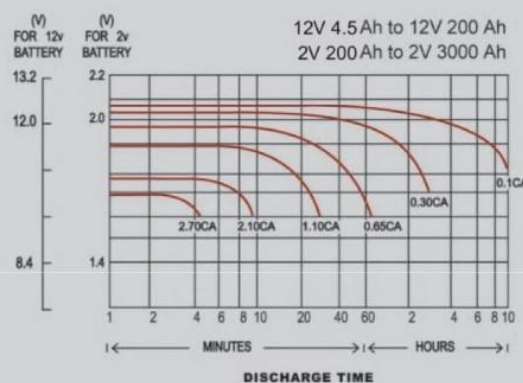
Terminal Type (mm)



Characteristics

Capacity 25°C (77°F)		10 hour-rate 3 hour-rate 1 hour-rate	2000 Ah 1533 Ah 1100 Ah
Internal Resistance		Full Charge Battery at 25°C (77°F)	0.15 mΩ
Capacity Affected by Temperature (10 Hour Rate)		35°C 25°C 0°C -10°C	2120 Ah 2000 Ah 1700 Ah 1500 Ah
Self-Discharge at 25°C (77°F)		Capacity After The 3 Month of Storage Capacity After The 6 Month of Storage Capacity After The 12 Month of Storage	91 % 82 % 64 %
Charge Constant Voltage	Cycle	Voltage 2.40-2.45 / Cell	
	Float	Voltage 2.23-2.25 / Cell	

Discharge Curves 25°C (77°F)



Discharge and Final Voltage Table According to IEC60896-21 Standard

Discharge time	0.25 h	1 h	3 h	5 h	8 h	10 h
Final voltage	1.60 VPC	1.60 VPC	1.70 VPC	1.73 VPC	1.75 VPC	1.80 VPC

Constant Current Discharge Table at 25°C (77°F) Based on IEC60896-21 Standard

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	1839	1186	734	532	361	249	200	105

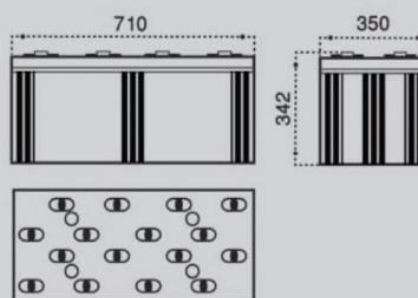
Constant Current Discharge Table at 25°C (77°F) Based on Final Voltage 1.80 V/Cell

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	1700	1100	680	511	350	240	200	109

2 SB 3000 (2V 3000Ah)



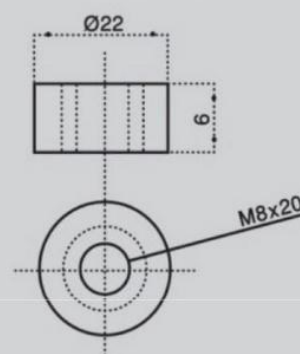
Outer Dimensions (mm)



Specifications

Nominal Voltage		2 V
Rated Capacity (10 Hour Rate)		3000 Ah
Dimensions	Total Height	382 mm
	Height	342 mm
	Length	710 mm
	Width	350 mm
Weight Approx (±2.5%)		195 Kg

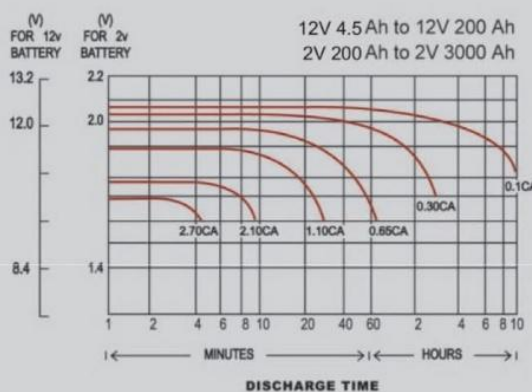
Terminal Type (mm)



Characteristics

Capacity 25°C (77°F)		10 hour-rate 3 hour-rate 1 hour-rate	3000 Ah 2307 Ah 1650 Ah
Internal Resistance		Full Charge Battery at 25°C (77°F)	0.1 mΩ
Capacity Affected by Temperature (10 Hour Rate)		35°C	3180 Ah
		25°C	3000 Ah
		0°C	2550 Ah
		-10°C	2250 Ah
Self-Discharge at 25°C (77°F)		Capacity After The 3 Month of Storage	91 %
		Capacity After The 6 Month of Storage	82 %
		Capacity After The 12 Month of Storage	64 %
Charge Constant Voltage	Cycle	Voltage 2.40-2.45 / Cell	
	Float	Voltage 2.23-2.25 / Cell	

Discharge Curves 25°C (77°F)



Discharge and Final Voltage Table According to IEC60896-21 Standard

Discharge time	0.25 h	1 h	3 h	5 h	8 h	10 h
Final voltage	1.60 VPC	1.60 VPC	1.70 VPC	1.73 VPC	1.75 VPC	1.80 VPC

Constant Current Discharge Table at 25°C (77°F) Based on IEC60896-21 Standard

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	2757	1780	1116	800	552	379	300	158

Constant Current Discharge Table at 25°C (77°F) Based on Final Voltage 1.80 V/Cell

Amount of Current (A)	Discharge Time							
	30 m	1 h	2 h	3 h	5 h	8 h	10 h	20 h
	2550	1650	1034	769	535	358	300	165