

stored energy solutions for a demanding world



Model: **12OPzV1200**

Ares series

Ares range battery adopts traditional tubular gel technology, adopts patent gel electrolyte. The products are used as standby power for communication, power, military and broadcast and television system. They possess precise ABS heat seal technology between container and lid and patented post seal structure. Provide better deep cycle performance versus AGM. The design float life is 18+ years.



Specifications

Battery Model	12OPzV1200
Nominal Voltage	2V
Rated Capacity	1200Ah (10hours rate) to 1.80V/cell @25°C(77°F)
Typical Weight	93kg
Internal Resistance	Approx 0.220mΩ
Operating Temperature Range	Operation (maximum): -40°C to 55°C(-40°F to 131°F)
	Operation (recommended): 15°C to 25°C(59°F to 77°F)
	Storage: -20°C to 40°C(-4°F to 104°F)
Float Voltage	2.23V/cell@25°C(77°F)
Charge Current	120A(Recommendation) 300A(Maxmum)
Equalize and Cycle Service	2.35V~2.40V/cell@25°C(77°F)
Self Discharge	The residual capacity is above 94% after 90 days storage(25°C/77°F)
Terminal	M8 Female Large Size Copper Post
Terminal Hardware Torque	15 ± 1.0Nm
Container Material	ABS (V0 optional)

Discharge Data with Constant Current Units : Amperes (25°C, 77°F)

End voltage	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	16h	24h	48h	100h
1.60V	1090	893	656	416	318	252	214	185	151	126	81.5	56.3	30.2	16.7
1.65V	1055	889	653	414	316	251	213	184	151	125	81.1	56.0	30.1	16.6
1.70V	1050	885	650	412	315	250	212	183	150	125	80.7	55.7	29.9	16.5
1.75V	1035	872	640	406	310	246	209	180	148	123	79.5	54.8	29.5	16.3
1.80V	1009	850	624	396	302	240	204	176	144	120	77.5	53.6	28.8	15.9
1.85V	989	834	612	388	296	236	200	172	141	118	76.1	51.8	28.2	15.6
1.90V	890	750	551	349	267	212	180	155	127	106	68.4	47.6	25.4	14.0

Discharge Data with Constant Power Units: Watts per cell (25°C, 77°F)

End voltage	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	16h	24h
1.60V	2250	1877	1343	862	659	525	431	381	317	266	171	117
1.65V	2233	1861	1333	858	651	521	428	378	315	264	170	116
1.70V	2210	1842	1317	848	642	515	423	374	310	261	168	114
1.75V	2167	1807	1293	827	635	505	415	367	305	256	165	112
1.80V	2060	1715	1224	789	626	480	394	348	291	243	156	106
1.85V	1967	1638	1170	754	583	458	376	332	277	232	150	102
1.90V	1865	1553	1111	715	553	434	356	315	263	220	141	97

Dimensions-mm

