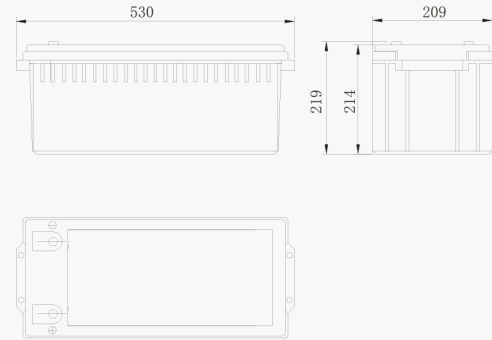


6-FM-150A

MAKELSAN®
Uninterruptible Power Supplies



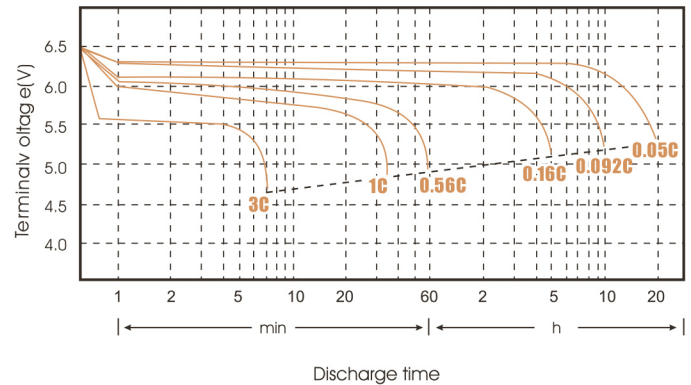
Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		150Ah
Dimensions	Total Height (with terminals)	8.62inches (219mm)
	Height	8.43inches (214mm)
	Length	20.87inches(530mm)
	Width	8.23inches (209mm)
Weight		Approx. 105.6Pound (48 kg)

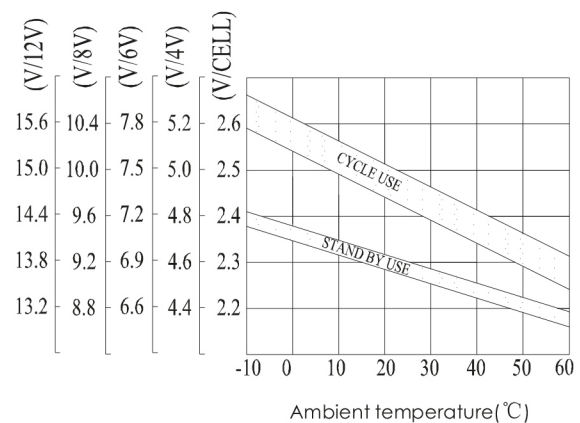
Characteristics

Capacity 77°F(25°C)	20 hour rate (7.5A)	150Ah
	10 hour rate (13.8A)	138Ah
	5 hour rate (24.0A)	120Ah
	1 hour rate (90.0A)	90Ah
	15 minute Rate (246A)	61.5Ah
Internal Resistance	Full charged Battery 77°F(25°C)	3.0mΩ
Capacity affected by Temperature (20 hour rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(20°C)	Capacity after 3 monthstorage	91%
	Capacity after 6 monthstorage	81%
	Capacity after 12 monthstorage	60%
Max. Discharge Current 77°F(25°C)	1000A(5S)	
Terminal	M5	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 45A Voltage 14.4~14.7V/77°F(25°C)
	Float	Voltage 13.5~13.8V/77°F(25°C)

Discharge Curves 77°F(25°C)



Relationship between charge voltage and temperature



Constant Power Discharge (WATTS @25°C)

Cut off voltage v/cell	1M	5M	10M	15M	30M	45M	1h	2h	3h	5h	8h	10h	12h	24h
1.60V	843	821	583	454	286	219	178	106	73.7	48.6	33.5	27.8	23.7	12.2
1.65V	821	804	576	451	282	217	175	104	72.0	48.1	33.4	27.6	23.6	12.1
1.67V	811	801	571	450	276	213	172	103	71.3	47.8	33.3	27.5	23.5	12.0
1.70V	801	757	560	441	247	210	168	102	70.4	47.1	33.1	27.2	23.3	11.9
1.75V	731	691	519	411	234	208	162	101	69.6	46.5	32.5	27.0	23.1	11.8
1.80V	660	626	487	391	214	205	159	100	68.7	45.2	32.1	26.5	22.9	11.6
1.85V	530	501	404	342	208	188	148	95.5	67.8	44.0	29.9	25.2	21.4	11.4