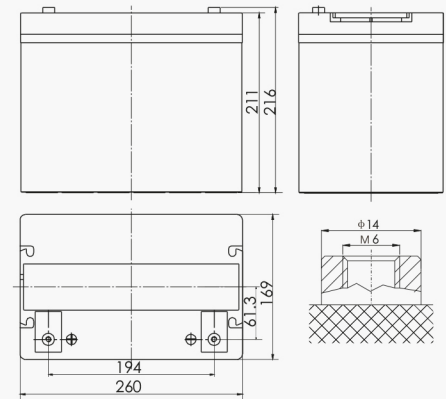


6-FM-80

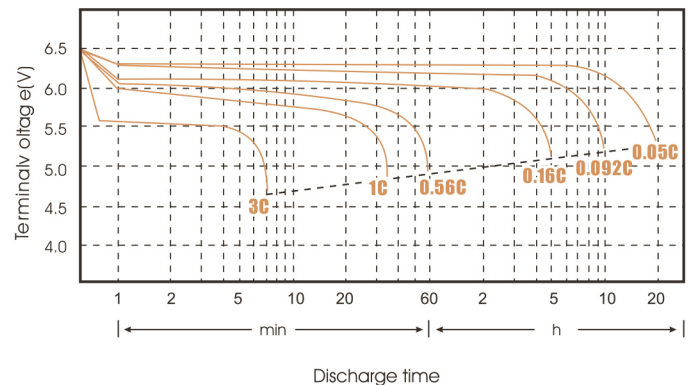
MAKELSAN®
Uninterruptible Power Supplies



Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		80Ah
Dimensions	Total Height (with terminals)	8.51 inches (216mm)
	Height	8.31 inches (211mm)
	Length	10.24 inches (260mm)
	Width	6.65 inches (169mm)
Weight		Approx. 46.64 pound (21.2kg)

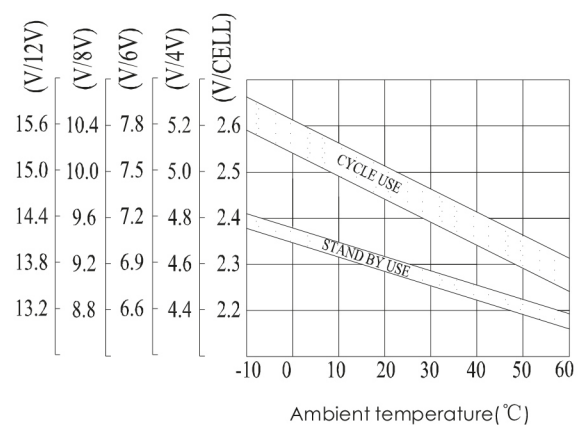
Discharge Curves 77°F (25°C)



Characteristics

Capacity 77°F (25°C)	20 hour rate (3.75A)	80Ah
	10 hour rate (6.8A)	68Ah
	5 hour rate (12A)	60Ah
	1 hour rate (45A)	45Ah
	15 minute Rate (122A)	30.5Ah
Internal Resistance	Full charged Battery 77°F (25°C)	7mΩ
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 month storage	91%
	Capacity after 6 month storage	81%
	Capacity after 12 month storage	60%
Max. Discharge Current 77°F (25°C)	675A (5S)	
Terminal	M1	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 22.5A Voltage 14.4~14.7V/77°F (25°C)
	Float	Voltage 13.5~13.8V/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	471	414	293	224	147	110	89.1	52.3	36.7	24.1	16.4	13.6	11.8	6.17
1.65V	460	396	290	222	143	109	88.2	51.6	36.3	23.9	16.3	13.4	11.7	6.15
1.67V	456	393	288	219	142	107	87.0	51.0	36.2	23.8	16.2	13.3	11.5	6.13
1.70V	449	378	284	216	140	106	86.5	50.3	36.0	23.4	16.0	13.0	11.5	6.10
1.75V	410	352	265	210	128	104	86.3	49.7	35.5	23.2	15.9	12.9	11.5	6.08
1.80V	370	315	247	196	120	103	85.8	48.9	34.7	23.1	15.6	12.7	11.1	6.06
1.85V	297	255	204	172	111	94.7	79.8	47.8	34.3	22.0	15.0	12.6	10.9	5.71