

UP-MP SERIES

UP-MP 31 DC

12V 110 Ah (C₂₀)

DEEP CYCLE BATTERIES



PHYSICAL CHARACTERISTICS

	SI Units	US Units
Length	336 mm	13,20 inch
Width	173 mm	6,80 inch
Height	235 mm	9,20 inch
Typical Weight	28,40 kg	62,60 lbs

SPECIFICATIONS

Nominal Voltage	12V	Case / Lid Material	Polypropylene
Rated Capacity	110 Ah (at C ₂₀ and 25°C)	Lid Type	Double
Plate Technology	Antimony / Calcium	Terminal Type	Top / Automotive
Separator	Polyethylene + glass mat	Carrying Handles	Available
Electrolyte	Sulphuric acid; analytical grade	Cycles at 75% DoD	More than 400 cycles
Standards	IEC 60254; IEC 61427	PVES Applications	More than 800 cycles

PERFORMANCE CHARACTERISTICS

Battery Discharge Performance at 25°C

Discharge Rate	C ₅ (5h)	C ₂₀ (20h)	C ₁₀₀ (100h)	Capacity at 25 A
End of discharge voltage	10,20 V	10,50 V	10,80 V	10,50 V
Discharge capacity	90 Ah	110 Ah	115 Ah	220 min / 92 Ah

Temperature Correction Factor of Discharge C₂₀ (20h) Capacity

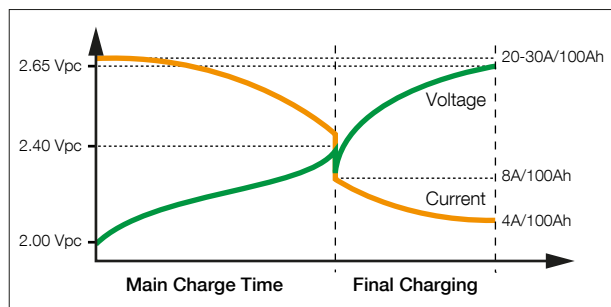
Temperature	-10°C	0°C	10°C	15°C	20°C	30°C	40°C
Correction factor	0.83	0.87	0.92	0.94	0.97	1.03	1.09



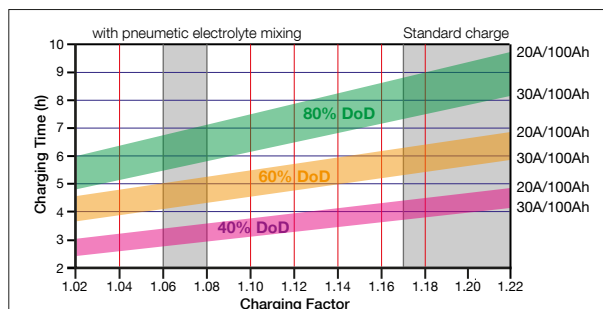
Battery Charge Conditions

Charging Profiles: WaW0 and IU1a Charge Factor: 1.10 - 1.20

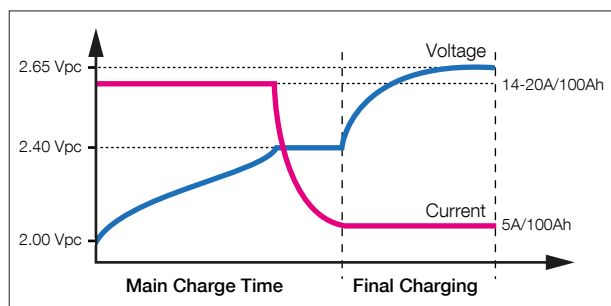
WaW0 – (double slope taper)
characteristics for flooded batteries



Charging times with WaW0 - characteristics in hours



IU1a – characteristics for flooded batteries



Charging times with IU1a - characteristics in hours

