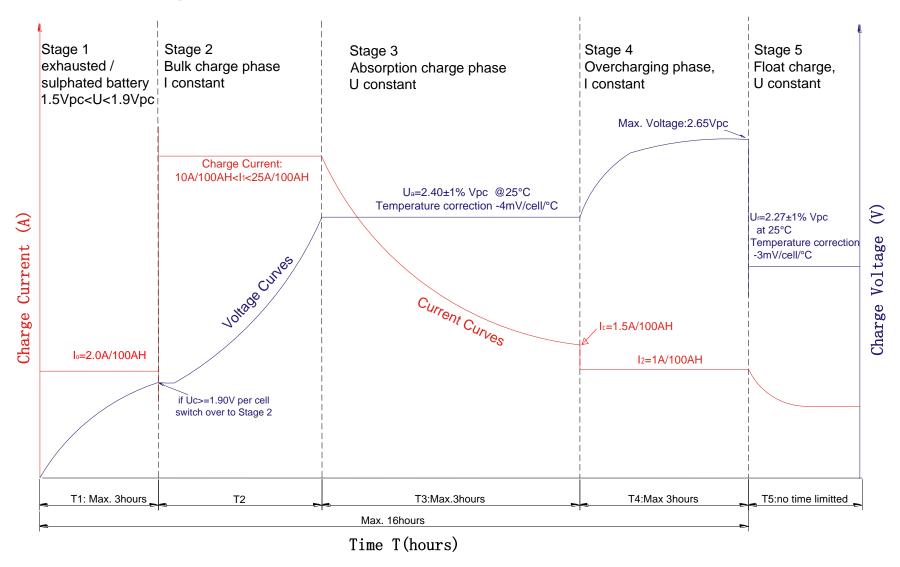




DC series recharge with IUIU characteristic





IUIU- characteristic DC series(AGM Technology)- referred to 25 $^{\circ}\mathrm{C}$

Charging phase	Description	Battery Parameters	Charger parameters	Switch over criterion	Switch-off criterion	Comment	Storing, possible	if
	Battery failure	U _{OCV} < 1.5V/C						
Stage1	exhausted / sulphated battery	1.5V/C < U _{OCV} < 1.9 V/C	I ₀ = 2.0 A/100Ah	U _C = 1.90V/C	T ₁ >3h	switch over to Stage 2	exhaustive discharges	
Stage 2	Bulk charge, I constant		10A/100Ah< I ₁ <25A/100Ah	U _C = 2.40V/C				
Stage 3	Absorption charge, U constant		U _c = 2.40V/C	I _C = 1.5A/100Ah				
	Safety shutdown				T ₃ >3h	switch over to Stage 4		
Stage 4	overcharging phase, I constant		I ₂ =1.0A/100Ah	T4>3h		T ₄ min. 2h at every restart		
	Safety shutdown				T1+T2+T3+T4>16h Max. U c=2.65V/C			
	Battery full					Switch over to Stage 5		
Stage 5	Floating charge		U f = 2.275V/C			No time limited		

Rev.2014.01