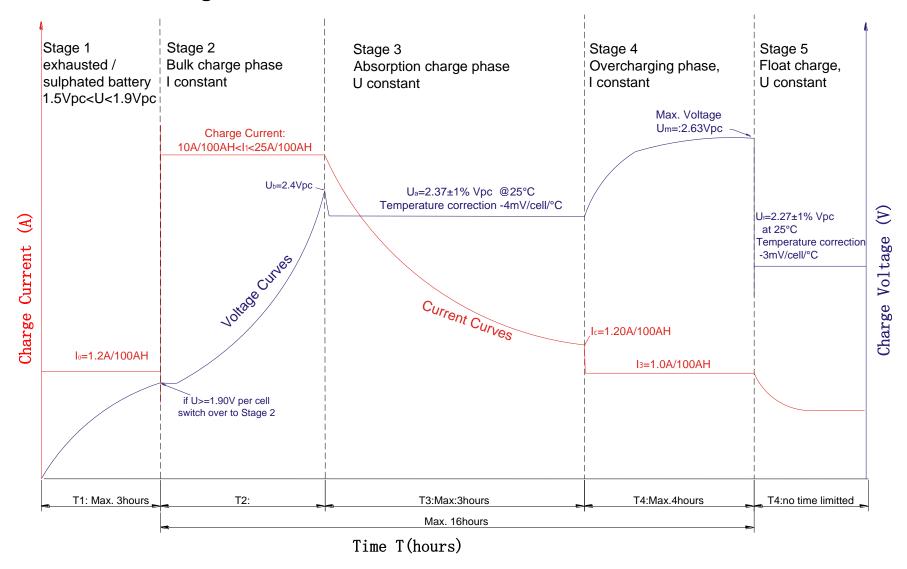


DCG series recharge with IUIU characteristic





IUIU- characteristic DCG series(GEL 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 = 1.2 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 _b = 2.40V/C				
Stage 3	Absorption charge, U constant		U _a = 2.37V/C	I _C = 1.2A/100Ah				
	Safety shutdown				T ₃ >3h			
Stage 4	overcharging phase, I constant		I ₃ =1.0A/100Ah		T4>4h	T ₄ min. 2h at every restart		
	Safety shutdown				T2+T3+T4>16h Max. U _m =2.60V/C			
	Battery full					Switch over to Stage 5		
Stage 5	Floating charge		U _f = 2.275V/C					

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