

Rotor 20 magnets, no extra flywheel weight

Cycle	-	C10	C11	C12	C13
Date	-	2020-08-18	2020-08-18	2020-08-18	2020-08-19
Rotor magnets	-	20	20	20	20
Gap	mm	12	12	12	12
Mode	-	CG	CG	CG	CG
Flywheel weight	kg	N/A	N/A	N/A	N/A
Output battery	ID-type	B (AGM/12Ah)	B (AGM/12Ah)	B (AGM/12Ah)	B (AGM/12Ah)
Output voltage @ rest, before/after testing	V	12.76 / 13.10	12.75 / ??	12.75 / 13.09	12.73 / 13.08
Input battery 1	ID-type	X1 (AGM/12Ah)	X1 (AGM/12Ah)	X1 (AGM/12Ah)	X1 (AGM/12Ah)
Input voltage 1 @ rest, before/after testing	V	13.10 / 12.77	13.09 / ??	13.06 / 12.73	13.10 / 12.72
Input battery 2	ID-type	N/A	N/A	N/A	N/A
Input voltage 2 @ rest, before/after testing	V	N/A	N/A	N/A	N/A
Input parallel voltage parallell (bat 1 + bat 2)	V	N/A	N/A	N/A	N/A
Input voltage @ end	V	12.4	12.37	12.36	12.34
Amp @ start	A	2.4	2.4	2.4	2.4
Amp @ end	A	1.85	1.92	1.9	1.87
RPM @ start/end	rpm	208 / 226	206 / 228	206 / 227	206 / 227
Time to charge to 15.3V	min	36	38.5	39.5	39
Ah to charge to 15.3V	Ah	1.28	1.39	1.42	1.39

Rotor 20 magnets, 5kg flywheel weight

Cycle	-	C18	C19	C21
Date	-	2020-08-21	2020-08-22	2020-08-22
Rotor magnets	-	20	20	20
Gap	mm	12	12	12
Mode	-	CG	CG	CG
Flywheel weight	kg	5kg	5kg	5kg
Output battery	ID-type	B (AGM/12Ah)	B (AGM/12Ah)	B (AGM/12Ah)
Output voltage @ rest, before/after testing	V	12.72 / 13.07	12.71 / ??	12.72 / ??
Input battery 1	ID-type	X1 (AGM/12Ah)	X1 (AGM/12Ah)	X1 (AGM/12Ah)
Input voltage 1 @ rest, before/after testing	V	13.05 / 12.70	13.08 / ??	13.05 / ??
Input battery 2	ID-type	N/A	N/A	N/A
Input voltage 2 @ rest, before/after testing	V	N/A	N/A	N/A
Input parallel voltage parallell (bat 1 + bat 2)	V	N/A	N/A	N/A
Input voltage @ end	V	12.33	12.33	12.31
Amp @ start	A	2.4	2.4	2.4
Amp @ end	A	1.8	1.8	1.85
RPM @ start/end	rpm	207 / 227	207 / 226	207 / 227
Time to charge to 15.3V	min	40	39.5	39.75
Ah to charge to 15.3V	Ah	1.40	1.38	1.41

Rotor 24 magnets, no extra flywheel weight

Cycle	-	C14	C15	C16	C17
Date	-	2020-08-20	2020-08-20	2020-08-20	2020-08-21
Rotor magnets	-	24	24	24	24
Gap	mm	12	12	12	12
Mode	-	CG	CG	CG	CG
Flywheel weight	kg	N/A	N/A	N/A	N/A
Output battery	ID-type	B (AGM/12Ah)	B (AGM/12Ah)	B (AGM/12Ah)	B (AGM/12Ah)
Output voltage @ rest, before/after testing	V	12.72 / 13.08	12.73 / 13.08	12.74 / 13.09	12.71 / 13.07
Input battery 1	ID-type	X1 (AGM/12Ah)	X1 (AGM/12Ah)	X1 (AGM/12Ah)	X1 (AGM/12Ah)
Input voltage 1 @ rest, before/after testing	V	13.09 / 12.73	13.07 / 12.72	13.03 / 12.71	13.08 / 12.71
Input battery 2	ID-type	N/A	N/A	N/A	N/A
Input voltage 2 @ rest, before/after testing	V	N/A	N/A	N/A	N/A
Input parallel voltage parallell (bat 1 + bat 2)	V	N/A	N/A	N/A	N/A
Input voltage @ end	V	12.36	12.34	12.33	12.33
Amp @ start	A	2.4	2.4	2.4	2.4
Amp @ end	A	1.85	1.88	1.9	1.82
RPM @ start/end	rpm	190 / 212	191 / 212	191 / 213	192 / 211
Time to charge to 15.3V	min	36.75	38	37.5	38.75
Ah to charge to 15.3V	Ah	1.30	1.36	1.34	1.36

5kg "Flywheel" added to rotor

