## New Yuasa garden batteries @ input & output

Tuesday	Wednesday	Thursday	Friday	Friday
3A max	3A max	3A max	3A max	3A max
20 / 79	20 / 70	20 / 79	20 / 93	20 / 80
10.07	20.59	17.32	8.46	19.15
11.5	22.04	18.23	9.39	20.07
102.5	64	51	52.75	51.5
C210803	C210804	C210805	C210806	C210807
2021-08-10	2021-08-11	2021-08-12	2021-08-13	2021-08-13
21 / 22mm	21 / 22mm	21 / 22mm	21 / 22mm	21 / 22mm
8	8	8	8	8
CG	CG	CG	CG	CG
8	8	8	8	8
N/A	N/A	N/A	N/A	N/A
S1 (FLA 30Ah)	S1 (FLA 30Ah)	S1 (FLA 30Ah)	S1 (FLA 30Ah)	S1 (FLA 30Ah)
12.85 / 13.13*	12.88 / ??	12.86 / 13.11*	12.85 / ??	12.84/??
S2 + S3 (FLA 60Ah)	S2 + S3 (FLA 60Ah)	S2 + S3 (FLA 60Ah)	S2 + S3 (FLA 60Ah)	S2 + S3 (FLA 60Ah)
12.94 / 12.74*	12.90 <b>/ ??</b>	13.01 / <mark>12.88</mark> *	13.00 / ??	13.02 / ??
12.7	12.67	12.75	12.74	12.75
12.52	12.56	12.67	12.63	12.63
1.85	1.81	1.9	1.9	1.96
1.58	1.59	1.62	1.6	1.61
218 / 257	223 / 257	218 / 256	218 / 254	217 / 255
102.5	64	51	52.75	51.5
2.93	1.81	1.50	1.54	1.53
0.34	0.55	0.67	0.65	0.65
57.9	57.9	57.9	57.9	57.9
1.715	1.7	1.76	1.75	1.785
1.71	1.07	0.85	0.88	0.86

30Ah paralleled @ input, 1x 30Ah @ output

(done @9.33). Discharged that Output battery S1 will be charged to 15V in (so 1h). this cycle. So expected is that the COP will be a bit lower in this cycle. Charged input batteries during discharge of output batteries (so 1h).\*measured after 1h

First cycles with new garden mower batteries. 2x 1st cycle. Output battery S1 charged Discharged output battery previous night@1A. Discharged output battery in the Discharged output battery Discharged output battery Conclusions: Althought cycles C21083 previous day with TGX charger to 14.69V Charged input batteries previous night. morning@1A. Charged input previous night@1A. in the morning (1h after can't really be counted as representative Charged output battery to 15V. Charged input batteries in the morning. Charged Charged input batteries previous cycle) night@1A. cycle, it seems that in cycle C210804 S1 evening@1.5Ah (C20) (done @ 20.44). batteries during discharge of output batteries output battery to 15V. Charged previous night. Charged Charged input batteries in still was conditioning. In final COP with

output batteries (so 1h).

\*Measured after an hour

during discharge of output output battery to 15V. batteries (so 1h).

input batteries during discharge of output battery to 15V. the morning (1h after this setup shows in Charged input batteries previous cycle. Charged C210805/C210806/C210807 Charged input batteries during discharge of output

batteries (so 1h).

	Back to 0-3Amp meter &
	positioned in negative
	wire
	Monday
	3A max
	21/84
	9.29
	10.27
	57
Γ	C210809
	2021-08-16
	21 / 22mm
	,
	CG
	8
	N/A
	S1 (FLA 30Ah)
	12.83 <b>/ 13.10</b> *
	S2 + S3 (FLA 60Ah)
	12.95 / 12.83*
	12.67
	12.6
	1.92
	1.59
ŀ	221/255
	1 67
	1.67
L	0.80
	57.9
	1.755

Discharged output batterys aturday morning @1A. Charged input batteries Saturday morning. Charged output battery to 15V. Switched back to 0-3A meter, but located in the negative wire instead of the positive. \*Measured after an hour

0.95

0-15Amp meter & on all cycle, no switch		
Satur	day	
15A n	nax	
77 /	/ 20	

9.11 10.03 52

1.875

0.87



night@1A. Charged input batteries previous night. Charged output battery to cycle gave more or less the same 15V. Switched 0-3A meter for 0-15amp COP. If there was any influence meter. Tis amp meter cannot be bypassed, so the whole cycle it was was very minor. Since the amp active. Charged input batteries during meter has a bigger scale, reading discharge of output batteries (so 1h). amp values was less accurate. \*Measured after an hour

Discharged output battery previous Conclusions: Different amp peter and leaving it on for the whole from leaving the amp meter on, it

## Day Amp meter C/% Temp / Humidity Started @ hour.min Stopped @ hour.min Stopwatch min Cycle Date Rotor magnets, amount/width -/mm

notor magnets, amount, what	/
Gap	mm
Mode	-
Power coils	-
Flywheel weight	kg
Output battery	ID-type
Output voltage @ rest, before/after testing	V
Input battery	ID-type
Input voltage @ rest, before/after testing	V
Input voltage @ start running	V
Input voltage @ end running	V
Amp @ start	A
Amp @ end	А
RPM @ start/end	rpm
Time to charge to 15.3V	min
Ah to charge to 15.3V	Ah
CO.D.	

Ohm

Α

Variable resistance Average amperage Time factor

Correction factor

"...@ start" = after +/- 2min of running.

"...@ end" = when output batt. Is 15.3V "...@ rest after testing" = 1 hour after run has

finished