

#155 Rev C - Smart Battery Charger

Parts List for 12V @ 5 Amp version

REF DES	QTY	DESCRIPTION		
R1,2	2	100 K Ω	1/4 W 5%	BN-BK-YL-GD
R3,4,7	3	2 K Ω	1/4 W 5%	RD-BK-RD-GD
R5,9	2	2.2 Ω	1/4 W 5%	RD-RD-GD-GD
R6,10	2	4.7 K Ω	1/4 W 5%	YL-VI-RD-GD
R11	1	1 K Ω	1/4 W 5%	BN-BK-RD-GD
R8	1	100 Ω	1/2 W 5%	BN-BK-BN-GD
RA	1	97.6 K Ω	1/4 W 1%	WT-VI-BL-RD-BN
RB	1	20 K Ω	1/4 W 1%	RD-BK-BK-RD-BN
RC	1	392 K Ω	1/4 W 1%	OR-WT-RD-OR-BN
RS1,RL1	2	0.025 Ω	3 W 1%	1/40 of an ohm
RS2,RL2	NOT USED			
C1a,b,c	3	4700 μ f	Radl	35V
C2	1	.47 μ f	Mono	(474)
C3	1	.22 μ f	Mono	(224)
C4	1	1.0 μ f	Mono	(105)
C5	1	.1 μ f	Mono	(104)
D1	1	STPS745D	7.5 Amp Power Diode	
D2	1	6A05	6 Amp Power Diode (or equiv)	
D3	NOT USED			
LEDp	NOT USED			
LEDf	1	RED LED	Final LED	5 mm
LEDc	1	GRN LED	Charging LED	5 mm
BR1	1	STPS20H100CT	10 Amp Diode Bridge	
U1	1		UC3906 IC	
Q2,3	2	2N2907	PNP Sig Transistor (or equiv)	
SOC	1		16 pin IC socket	
Wire	2	5 inches	#24 BLACK	
Wire	1	5 inches	#24 GREEN	
Wire	1	5 inches	#24 RED	
Htsk	2	492-255	Custom Heatsinks	
Hrdw	2	Screw	6-32 X 5/16	
Hrdw	2	Nut	6-32 KEP	
Hdr	1		2 pin .100 centers	
Hrdw	1	Screw	4-40 X 1/4	
Hrdw	1	Screw	4-40 X 1/2	
Hrdw	1	Nut	4-40 KEP	
Misc	1	L Bracket	Key #612	
Misc	1	Fan	12VDC 40 mm	
PCB	1	155 Rev C	Circuit Board	

NOTICE

**Only the board mounted components are listed here
Other components vary depending on version of charger
Power Transformer, Ammeter, Fuses, Power Transistor,
etc are listed elsewhere**