



General: This charger is use for charge rechargeable Nickel-Cadmium, Ni-MH batteries, size AAA and AA batteries. The complete unit is housed in the Polycarbonate resin enclosure in accordance with UL, C-UL, IEC and EN Safety Standard.

Description: Microprocessor Controlled Ultra-fast NiMH and NiCd Battery Charger

Rating: INPUT: 12VDC 1.7A  
OUTPUT:  
NiMH- AA-4 x (1.4V DC 2A)  
NiMH- AAA-4 x (1.4V DC 0.85A)  
NiCd- AA-4 x (1.4V DC 1A)  
NiCd- AAA-4 x (1.4V DC 0.425A)

## COMPONENTS:

		<u>Type</u>	<u>Description</u>
1.	R1	Resistor	2.4K $\Omega$ $\pm$ 5% 1/4W
2.	R2, R3, R5	Resistor	560 $\Omega$ $\pm$ 5% 1/4W
3.	R4	Resistor	560 $\Omega$ $\pm$ 5% 1/8W
4.	R6, R28, R29, R30, R31, R67, R71, R74, R80, R86	Resistor	10K $\Omega$ $\pm$ 5% 1/4W
5.	R7, R9, R10, R54, R73, R79	Resistor	470K $\Omega$ $\pm$ 5% 1/4W
6.	R8, R53, R72, R78	Resistor	47K $\Omega$ $\pm$ 5% 1/4W
7.	R11	Resistor	470 $\Omega$ $\pm$ 5% 1/4W
8.	R12, R13, R14, R15	Resistor	680 $\Omega$ $\pm$ 5% 1/4W
9.	R16, R17, R18, R19, R62	Resistor	5.1K $\Omega$ $\pm$ 5% 1/4W
10.	R20, R22, R24, R26	Resistor	2.7K $\Omega$ $\pm$ 1% 1/4W*
11.	R21, R23, R25, R27	Resistor	4.7K $\Omega$ $\pm$ 1% 1/4W
12.	R32	Resistor	20K $\Omega$ $\pm$ 1% 0805
13.	R33, R34, R35	Resistor	20K $\Omega$ $\pm$ 1% 1/4W
14.	R36, R38, R39, R41, R42, R43	Resistor	10K $\Omega$ $\pm$ 1% 1/4W
15.	R37, R40	Resistor	10K $\Omega$ $\pm$ 1% 0805
16.	R44	Resistor	1M $\Omega$ $\pm$ 1% 1/4W
17.	R45	Resistor	390K $\Omega$ $\pm$ 1% 1/4W
18.	R46	Resistor	150K $\Omega$ $\pm$ 1% 1/4W
19.	R47, R52, R58, R60, R81, R82, R83, R84	Resistor	100K $\Omega$ $\pm$ 5% 1/4W
20.	R48, R49, R50, R51, R56, R57, R75, R76	Resistor	1M $\Omega$ $\pm$ 5% 1/4W
21.	R55	Resistor	10K $\Omega$ $\pm$ 5% 0805
22.	R59, R64, R65	Resistor	1.5K $\Omega$ $\pm$ 5% 1/4W
23.	R61	Resistor	200 $\Omega$ $\pm$ 5% 1/4W
24.	R63	Resistor	27K $\Omega$ $\pm$ 5% 1/4W
25.	R66	Resistor	2K $\Omega$ $\pm$ 0.5% 1/4W
26.	R68	Resistor	88.7K $\Omega$ $\pm$ 0.5% 1/4W
27.	R69, R70	Resistor	0.1 $\Omega$ $\pm$ 1% 1/4W
28.	R77	Resistor	100K $\Omega$ $\pm$ 5% 1/8W
29.	R85	Resistor	10K $\Omega$ $\pm$ 5% 1/8W
30.	C1	E. Capacitor	1000uF/16V 105°C
31.	C2, C24	E. Capacitor	220uF/16V 105°C
32.	C3, C7, C25, C26	Mono Capacitor	104 $\pm$ 20% 50V
33.	C6	Ceramic Capacitor	221 $\pm$ 20% 50V
34.	C8	E. Capacitor	10 uF/35V 105°C

35.	C10, C11, C12, C13, C14, C15, C16, C17, C18	Capacitor	104 $\pm$ 20%
36.	C19	Capacitor	2A223J
37.	C20, C22, C23	Mono Capacitor	103 $\pm$ 20% 50V
38.	C21	E. Capacitor	100 uF/16V 105°C
39.	D1	Diodes (Rectifiers)	1N5401
40.	D2, D3, D4, D5, D6, D8, D9, D10, D11, D12, D13	Diodes (Rectifiers)	1N4148
41.	D7	Diodes (Rectifiers)	SR540
42.	LED1, LED2, LED3, LED4	LED	3mm Red & Green dual color
43.	LED5	LED	3mm Red
44.	Q1, Q6, Q10	Transistor	S9014 (TO-92)
45.	Q2, Q3, Q8, Q9, Q13, Q14, Q17, Q18	Transistor	S9013 (TO-92)
46.	Q4, Q7, Q15, Q19	Transistor	RU52 (SOP-8)
47.	Q21	Transistor	RU55 (SOP-8)
48.	U1	IC	T8L05 $\pm$ 2% (TO-92)
49.	U2	IC	V-6000 (DIP-18)
50.	U3	IC	CD4051 (DIP-16)
51.	U4	IC	LM358 (DIP-8)
52.	L1	Choke	RL1015-500K/C913
53.	L2	Choke	TC1306-350M/C966
54.	Y1	Resonator	4MHZ 3 Pin
55.	NTC1, NTC2, NTC3, NTC4	NTC	DHTAB103J952S
56.	VR1	Variable resistor	200K
57.		DC socket	DS-250-A-003
58.		Switch	SSF-22F04-G9-NS
59.		Plastic enclosure	Polycarbonate resin, By Bayer AG Type: 6485(f1) Class: 94-V0, UL File E41613
60.		H-Head Screw	3 x 8mm
61.		Printing circuit board	Type: ST017, Rated: 94V-0 By Sun Tat Industrial Ltd. UL file: E101438
62.		Contact plate (+)terminal	Copper Alloy
63.		Contact plate (-) terminal	Copper Alloy