Battery Load Tester

LM7815CTFS-ND 15V 1A

JP9

R1 10KΩ

VR1 1MΩ

R2 10KΩ

VR2 10KΩ

R7 10KΩ

R8 10KΩ

R9 560Ω 1/2W

556 Timer A

Vs
discharge
output
threshold
trigger   reset
control   Gnd

LM339N

556 Timer B

Vs
reset
output
trigger
threshold   Gnd

JP6

LED1 Green

20mA @2V

JP7

LED2 Red

20mA @2V

C1 100uF 50V

R3 47Ω 1/2W

D1 1N4001

D2 1N4148

R5 10KΩ

R6 1MΩ

JP5

R10 560Ω 1/2W

JP8

JP2

JP3

JP4

R4 10KΩ

JP1

C2 27uF 50V

C3 0.01uF 50V

C4 0.1uF 50V

C5 0.1uF 50V

Trigger   SW2

Reset   SW3

Relay PB110-ND
12VDC 77mA
Contact Rating
30A@240VAC

SW1

R11 1.5Ω 50W 1%

R13 1.5Ω 50W 1%

R15 1.5Ω 50W 1%

R17 1.5Ω 50W 1%

R19 1.5Ω 50W 1%

C6 6800uF 50V

+

18-24V DC

-

R12 1.5Ω 50W 1%

R14 1.5Ω 50W 1%

R16 1.5Ω 50W 1%

R18 1.5Ω 50W 1%

R20 1.5Ω 50W 1%

Digital Voltmeter

V

12V

KAL501.5F-ND x 10