PWM Power Controller
http://picprojects.org.uk

JP1: Logic power options
Link 1-2 for power from CON2 supply
Link 2+3 for separate logic power

DC Supply in

R1 1K IC1 12F683 (needs programming)
R2 270R IC2 78L05
R3 220R D1 1N4002 / 1N5819 / 1N5820
R4 100K D2 1N4148
R5 see Text LED1 5mm Green
C1 100nF Q1 STP36NF06L MOSFET LOGIC N 60V 30A
C2 220nF S1 Omron B3F-31XX or similar
C3 22uF VR1 5K linear pot
C5/6 47uF to 100uF see Text

Heatsink TO220 HEATSINK WITH LUG 19°C/W (optional)
Rapidonline part # 36-0235
CON2/3 2 WAY 16A 5MM END STACKABLE TERM-BLOC
Rapidonline part # 21-1810
JP1 3-way 0.1” pin header
JP2 3-way 0.1” pin header
CON1 4-way 0.1” pin header

Note:
D1 Select to suit load and application
Q1 MOSFET may need heatsink depending on load