

## IC Power Modules for Switching Power Supply

### [Outline]

This is an IC module for the primary side main circuits of RCC type switching power supplies.

### [Features]

1. Small number of externally mounted parts
2. Fold-back current limit characteristic
3. Soft start characteristic (MA1000, 2000, 3000 series)
4. High efficiency and low noise (MA3000 series)
5. Insulated type 7-terminal package

Type No.				Input Voltage [V]	Output capacity [W]	Remarks	Outline	
MA1000 series	MA2000 series *2	☆ MA3000 series *3	MA4000 series				Package	Fig.
MA1010	MA2410	---	---	90~132	20	---	MA7	104
1020	2420	---	---		30			
---	---	MA3410	---		40			
1030	2430	---	4520		50			
---	2440	---	4530		80			
---	2450	3450	---		100			
1040	2810	3810	---	180~276	40	*1		
1050	2820	---	4810		60			
---	2830	3830	4820		100			

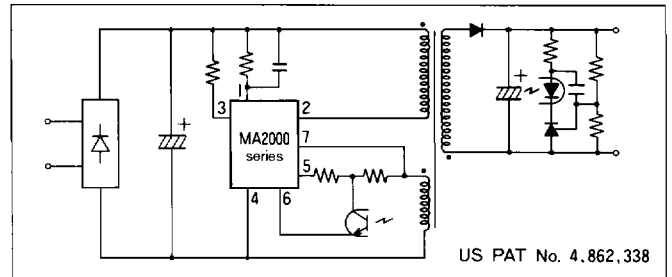
☆ : New products

\*1 : By adding a few external parts, these modules can be used in Wide-range input power supplies.

\*2 : With the MA2000 series, overvoltage control and ON/OFF switching of output are possible.

\*3 : Quasi Resonant Power Supply can be designed with the same method as usual RCC Power Supply.

Circuit example for a switching P/S



## Automatic AC Line Voltage Selector

Type No.	V <sub>DRM</sub> [V]	I <sup>2</sup> t [A <sup>2</sup> S]	V <sub>S(DC)</sub> [V]	V <sub>C(DC)</sub> [V]	V <sub>UL(DC)</sub> [V]	Bridge Rectification Holding Function	T <sub>stg</sub> [°C]	T <sub>op</sub> [°C]	Outline	
									Package	Fig.
MK1110	500	10	MAX 90	195~220	---	Unavailable	-30~125	-10~100	MA7	104
MK1210					TYP 25	Available				

## Rush Current Suppression Hybrid IC

Type No.	V <sub>RM</sub> [V]	I <sub>o</sub> [A]		V <sub>RRM</sub> [V]		I <sub>FSM</sub> [A]	θ <sub>ja</sub> [°C/W]	θ <sub>jc</sub> [°C/W]	T <sub>stg</sub> [°C]	T <sub>j</sub> [°C]		Outline	
		100V AC	200V AC	100V AC	200V AC					100V AC	200V AC	Package	Fig.
MJ2400	600	3.4	1.9	200	400	80	27	2.9	-30~150	135	110	MA10	105