

15D Series(1)



15W 2-Channel

- **5V2.5A 5V0.5A/
5V2A 9V0.5A/
5V2A 12V0.5A/
5V2A 15V0.4A/
5V1.5A 24V0.3A
2-Channel Output**
- **Wide Input Voltage Range
(AC85-264V)**
- **Built-in Inrush Current
Limiter, Over Current
Protector and Over
Voltage Protector**
- **Over Temperature
Protection**
- **Auto-Restart Mode**

SPECIFICATIONS

Item		UP15DAA		UP15DAB		UP15DAC		UP15DAD		UP15DAE	
INPUT	VOLTAGE	AC85~264V						0.4A typ (ACIN 110V, Io=100%) 0.2A typ (ACIN 220V, Io=100%)			
	FREQUENCY	50/60Hz(47~63Hz)									
	EFFICIENCY	70% Typ		70% Typ		70% Typ		70% Typ		70% Typ	
	INRUSH CURRENT	20A Typ(ACIN 110V, Io=100%)/40A Typ(ACIN 220V, Io=100%) at cold start									
OUTPUT	VOLTAGE [V]	5	5	5	9	5	12	5	15	5	24
	CURRENT [A]	2.5	0.5	2.0	0.5	2.0	0.5	2.0	0.4	1.5	0.3
	LINE REGULATION [mV]	25 Max	25 Max	25 Max	45 Max	25 Max	60 Max	25 Max	75 Max	25 Max	120 Max
	LOAD REGULATION [mV]	50 Max	50 Max	50 Max	90 Max	50 Max	120 Max	50 Max	150 Max	50 Max	240 Max
	RIPPLE [mVp-p]	50 Max	50 Max	50 Max	90 Max	50 Max	120 Max	50 Max	150 Max	50 Max	240 Max
	RIPPLE NOISE [mVp-p]	100 Max	100 Max	100 Max	140 Max	100 Max	170 Max	100 Max	200 Max	100 Max	290 Max
	TEMPERATURE DRIFT,0-50℃ [mV]	50 Max	50 Max	50 Max	90 Max	50 Max	120 Max	50 Max	150 Max	50 Max	240 Max
	RISE TIME [msec]	100 Max (ACIN 85V, Io=100%)									
	HOLDING TIME [msec]	10 Typ(ACIN 85V, Io=100%)									
PROTEC-TION	OVER CURRENT PROTECTION	Works at over 110% of rating and recovers automatically									
	OVER VOLTAGE PROTECTION	Works at 115~140% of rating									
ISOLAT-ION	INPUT-OUTPUT	AC3,000V for 1 minute, DC500V 100Mohm (At room temp. & humid.)									
	INPUT-CASE, FG	AC1,500V for 1 minute, DC500V 100Mohm (At room temp. & humid.)									
	OUTPUT-CASE	AC500V for 1 minute, DC500V 100Mohm (At room temp. & humid.)									
ENVIRON-MENT	OPERATING TEMP. & HUMID.	-10~+50℃, 20~90%RH(Non condensing)									
	STORAGE TEMP. & HUMID.	-20~+75℃, 20~90%RH(Non condensing)									
	VIBRATION	10~55Hz at 1G 3 minutes period, 30 minutes along X, Y and Z axis									
	IMPACT	10G for 20 msec, Once on each X, Y and Z axis									
	APPROVALS										

15D Series(2)



15W 2-Channel

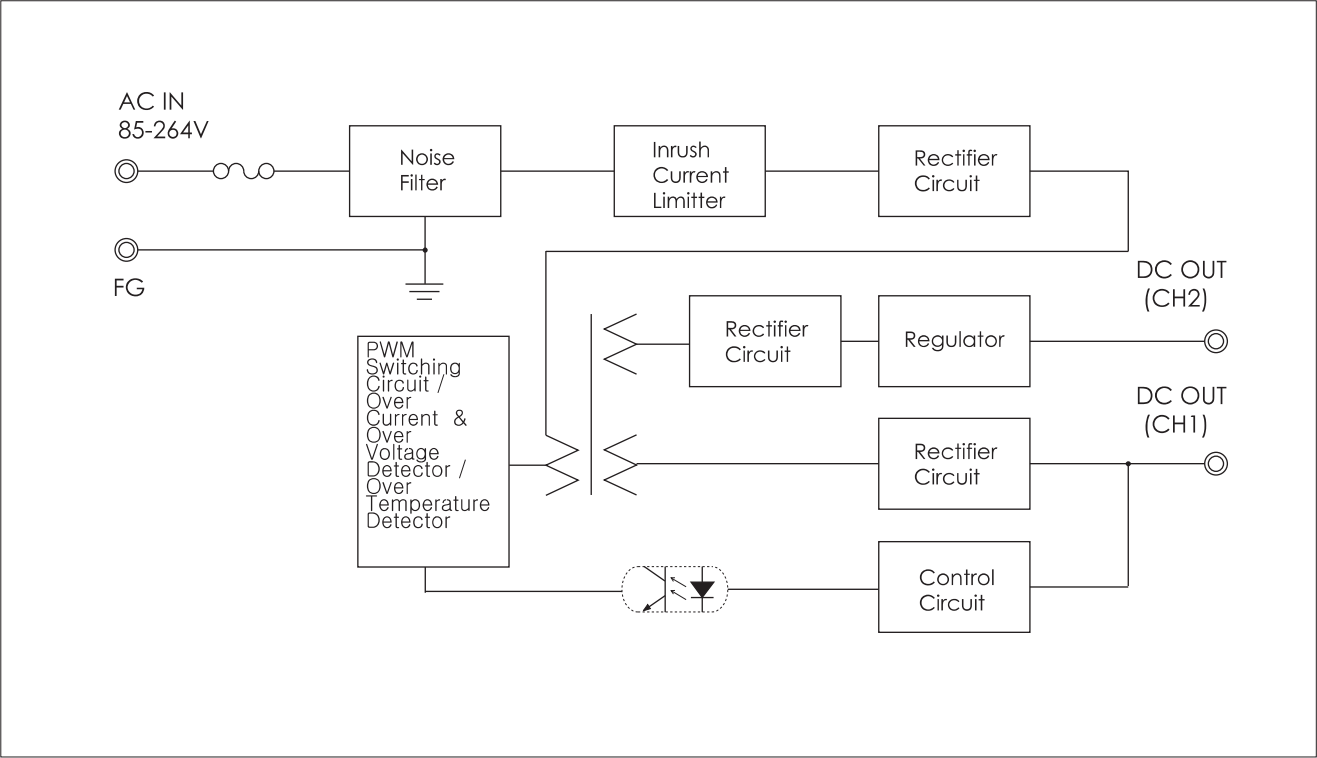
- **9V1.2A 9V0.5A/
12V0.7A 12V0.5A/
15V0.5A 15V0.5A/
24V0.3A 24V0.3A/
2-Channel Output**
- **Wide Input Voltage Range
(AC85-264V)**
- **Built-in Inrush Current
Limiter, Over Current
Protector and Over
Voltage Protector**
- **Over Temperature
Protection**
- **Auto-Restart Mode**

SPECIFICATIONS

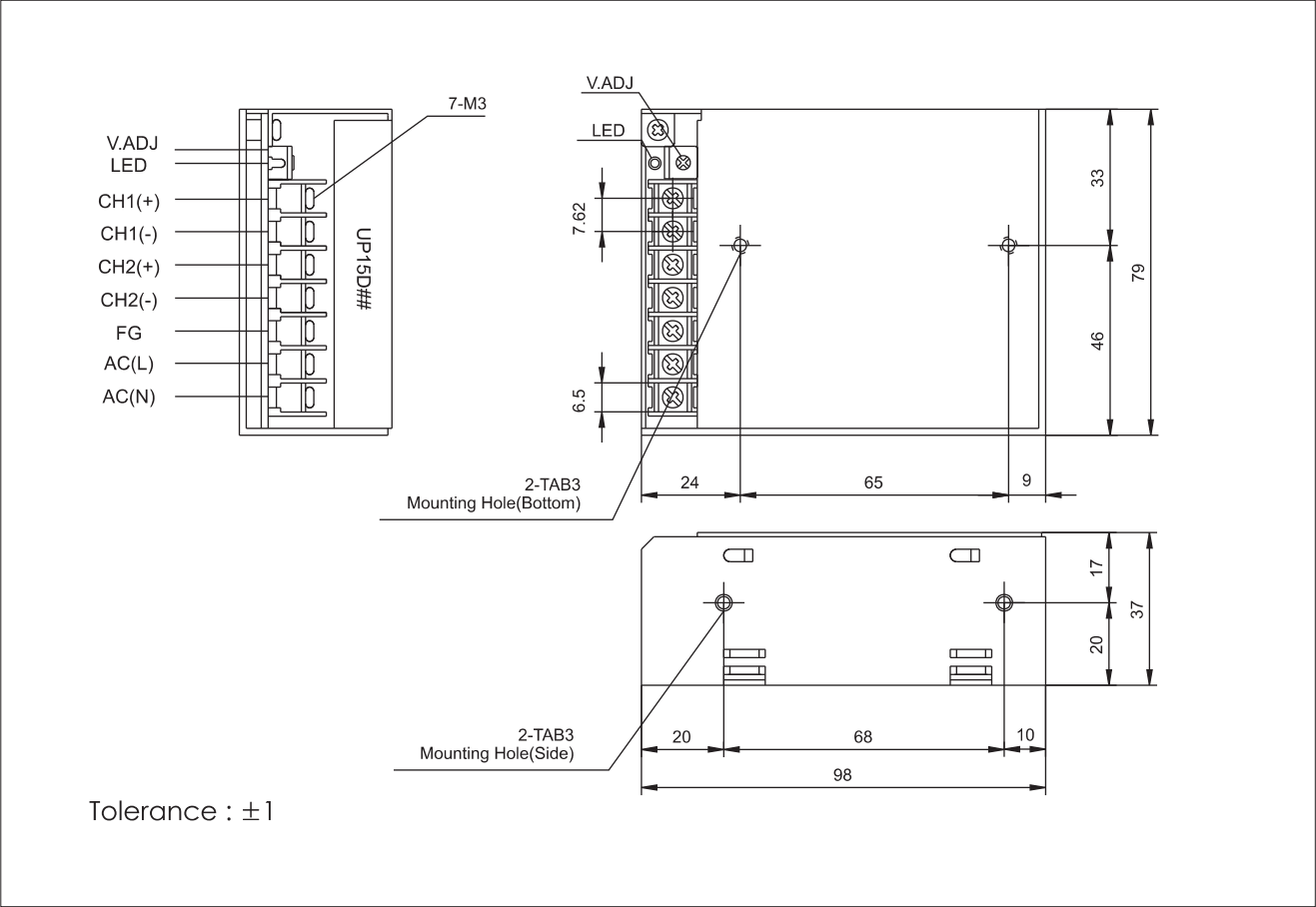
Item		UP15DBB		UP15DCC		UP15DDD		UP15DEE	
INPUT	VOLTAGE	AC85~264V						0.4A typ (ACIN 110V, lo=100%) 0.2A typ (ACIN 220V, lo=100%)	
	FREQUENCY	50/60Hz(47~63Hz)							
	EFFICIENCY	70% Typ		70% Typ		70% Typ		70% Typ	
	INRUSH CURRENT	20 A Typ(ACIN 110V, lo=100%)/ 40A Typ(ACIN 220V, lo=100%) at cold start							
OUTPUT	VOLTAGE [V]	9	9	12	12	15	15	24	24
	CURRENT [A]	1.2	0.5	0.7	0.5	0.5	0.5	0.3	0.3
	LINE REGULATION [mV]	45 Max	45 Max	60 Max	60 Max	75 Max	75 Max	120 Max	120 Max
	LOAD REGULATION [mV]	90 Max	90 Max	120 Max	120 Max	150 Max	150 Max	240 Max	240 Max
	RIPPLE [mVp-p]	90 Max	90 Max	120 Max	120 Max	150 Max	150 Max	240 Max	240 Max
	RIPPLE NOISE [mVp-p]	140 Max	140 Max	170 Max	170 Max	200 Max	200 Max	290 Max	290 Max
	TEMPERATURE DRIFT,0-50℃ [mV]	90 Max	90 Max	120 Max	120 Max	150 Max	150 Max	240 Max	240 Max
	RISE TIME [msec]	100 Max (ACIN 85V, lo=100%)							
	HOLDING TIME [msec]	10 Typ (ACIN 85V, lo=100%)							
PROTEC-TION	OVER CURRENT PROTECTION	Works at over 110% of rating and recovers automatically							
	OVER VOLTAGE PROTECTION	Works at over 115~140% of rating							
ISOLAT-ION	INPUT-OUTPUT	AC3,000V for 1 minute, DC500V 100Mohm (At room temp. & humid.)							
	INPUT-CASE, FG	AC1,500V for 1 minute, DC500V 100Mohm (At room temp. & humid.)							
	OUTPUT-CASE	AC500V for 1 minute, DC500V 100Mohm (At room temp. & humid.)							
ENVIRON-MENT	OPERATING TEMP. & HUMID.	0~+50℃, 20~90%RH (Non condensing)							
	STORAGE TEMP. & HUMID.	-20~+75℃, 20~90%RH (Non condensing)							
	VIBRATION	10~55Hz at 1G 3 minutes period, 30 minutes along X, Y and Z axis							
	IMPACT	10G for 20 msec, Once on each X, Y and X axis							
	APPROVALS								

15D Series

BLOCK DIAGRAM

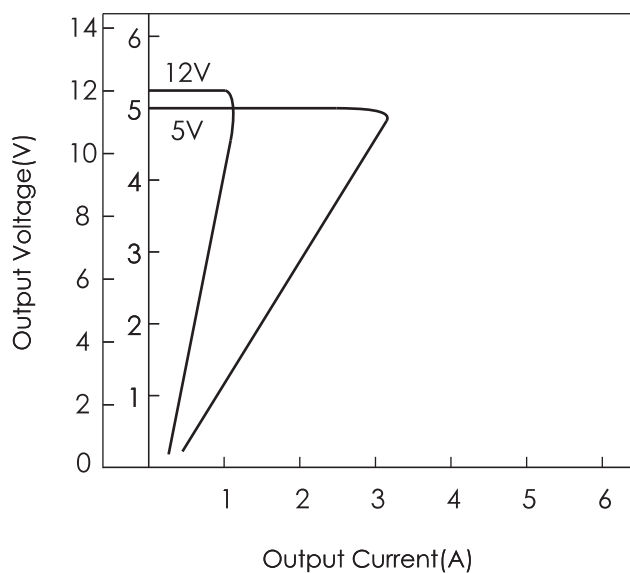


DIMENSIONS(UNITS : MM)

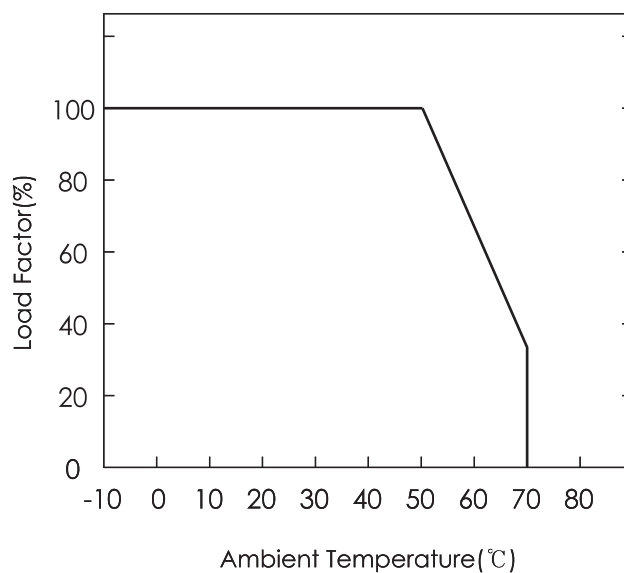


19. 15D Series(15DAC)

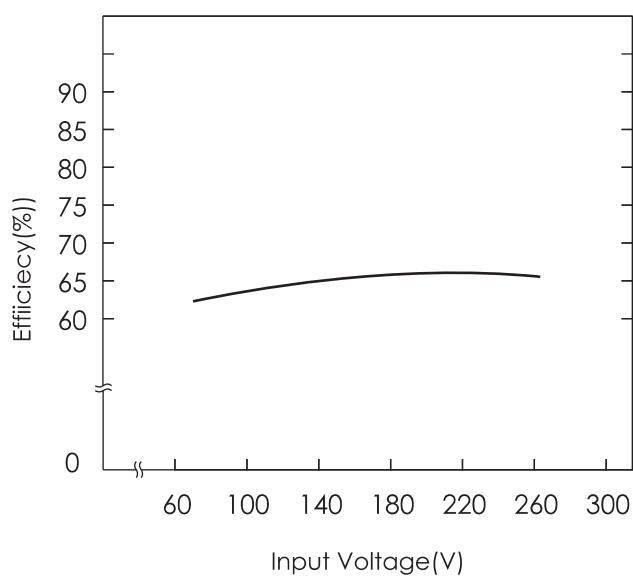
A. OVER CURRENT CHARACTERISTICS



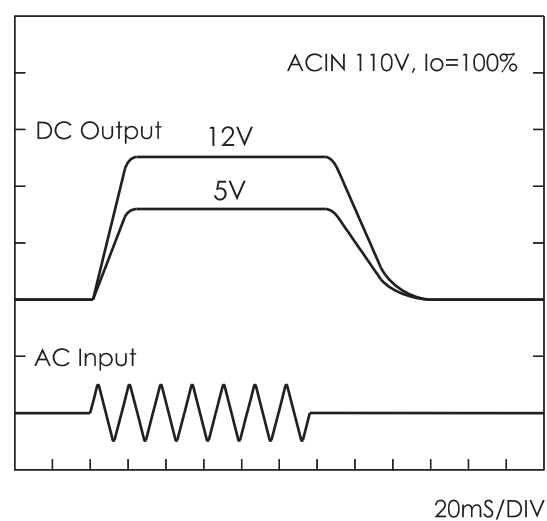
B. DERATING CHARACTERISTICS



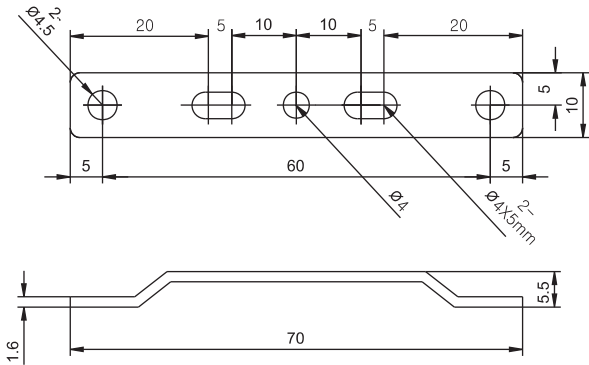
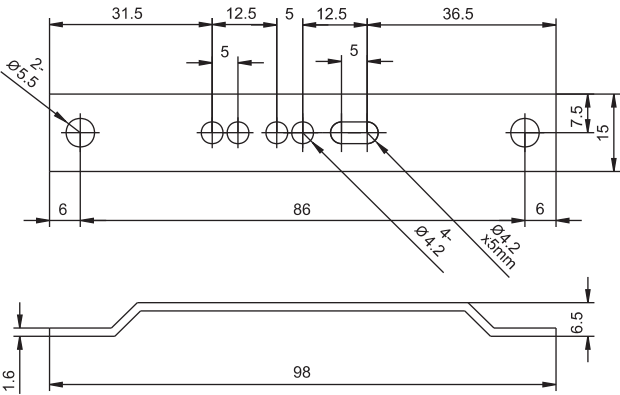
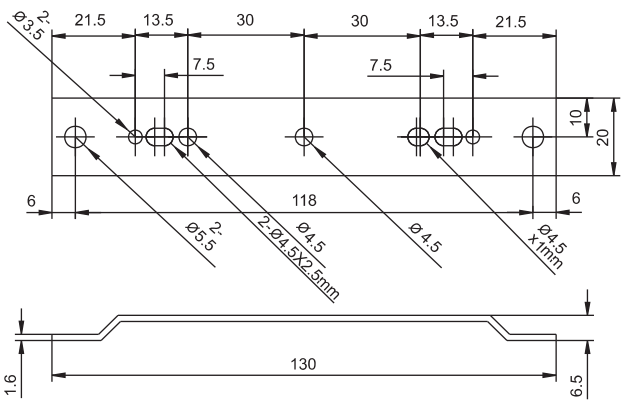
C. EFFICIENCY CHARACTERISTICS



D. RISING/FALLING TIME CHARACTERISTICS



BRACKET

MODEL	APPLICATION	DIMENSIONS(UNIT:mm)
BRACKET-A	15S Series 30S Series 50S Series 75S Series 100S Series 150S Series 200S Series 220S Series 15D Series 30D Series 50D Series 15T Series 30T Series 50T Series	 <p>Technical drawing of Bracket A. The top view shows a rectangular plate with a total width of 60mm and a total length of 70mm. It features five mounting holes with a diameter of $\phi 4.5$mm. The hole spacing is 20mm between the first and second, 5mm between the second and third, 10mm between the third and fourth, 5mm between the fourth and fifth, and 20mm from the fifth hole to the right edge. The plate has a thickness of 1.6mm and a mounting flange width of 5.5mm. The side view shows a profile with a total height of 10mm and a mounting flange height of 5mm.</p>
BRACKET-B	300S Series 400S Series	 <p>Technical drawing of Bracket B. The top view shows a rectangular plate with a total width of 86mm and a total length of 98mm. It features five mounting holes with a diameter of $\phi 5.5$mm. The hole spacing is 31.5mm between the first and second, 12.5mm between the second and third, 5mm between the third and fourth, 12.5mm between the fourth and fifth, and 36.5mm from the fifth hole to the right edge. The plate has a thickness of 1.6mm and a mounting flange width of 6.5mm. The side view shows a profile with a total height of 15mm and a mounting flange height of 6.5mm.</p>
BRACKET-C	500S Series 600S Series 650S Series 750S Series 850S Series 1000S Series 1200S Series 1500S Series	 <p>Technical drawing of Bracket C. The top view shows a rectangular plate with a total width of 118mm and a total length of 130mm. It features five mounting holes with a diameter of $\phi 4.5$mm. The hole spacing is 21.5mm between the first and second, 13.5mm between the second and third, 30mm between the third and fourth, 30mm between the fourth and fifth, and 21.5mm from the fifth hole to the right edge. The plate has a thickness of 1.6mm and a mounting flange width of 6.5mm. The side view shows a profile with a total height of 20mm and a mounting flange height of 6.5mm.</p>