

## MSF300-S SPECIFICATIONS



MODEL		MSF300-3R3	MSF300-05	MSF300-12	MSF300-15		
INPUT	VOLTAGE, FREQUENCY		AC100-120V / 200-240V (AC90 ~ 132V / 180 ~ 264V or DC255 ~ 370V), 50/60Hz (47 ~ 440Hz) User Selectable				
	CURRENT	[A]	110V	7.0 (I <sub>o</sub> =100%)			
			220V	3.5 (I <sub>o</sub> =100%)			
	EFFICIENCY	[%]	110V	73 typ	73 typ	78 typ	80 typ
			220V				
INRUSH CURRENT		30A typ(AC IN 110V, I <sub>o</sub> =100%), 60A typ(AC IN 220V, I <sub>o</sub> =100%) at cold start.					
OUTPUT	VOLTAGE	[V]	3.3	5	12	15	
	CURRENT	[A]	60	60	25	20	
	REGULATION, LINE	[mV]	25 Max	25 Max	60 Max	75 Max	
	REGULATION, LOAD	[mV]	50 Max	50 Max	120 Max	150 Max	
	RIPPLE	[mVp-p]	50 Max	50 Max	120 Max	150 Max	
	RIPPLE, NOISE	[mVp-p]	100 Max	100 Max	170 Max	200 Max	
	TEMPERATURE DRIFT 0~+50°C	[mV]	50 Max	75 Max	180 Max	225 Max	
	RISE TIME	[ms]	500 max (AC IN 110V, I <sub>o</sub> =100%)				
	HOLDING TIME	[ms]	16 typ (AC IN 110V, I <sub>o</sub> =100%)				
PROTECTION CIRCUIT	OVER CURRENT PROTECTION		Works at over 110% of rating and recovers automatically				
	OVER VOLTAGE PROTECTION		Works at 115 ~ 140% of rating				
ELECTRICALLY ISOLATED	INPUT-OUTPUT		AC 3,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)				
	INPUT-CASE, FG		AC 2,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)				
	OUTPUT-CASE, FG		AC 500V 1 minute current 100mA, DC 500V 100MΩ (At room temperature & Humidity)				
ENVIRONMENT	OPERATING TEMP AND HUMID		-10 ~ +50°C, 20 ~ 90% RH(Non condensing)				
	STORAGE TEMP AND HUMID		-20 ~ +75°C, 20 ~ 90% RH(Non condensing)				
	VIBRATION		10 ~ 55Hz at 1G, 3 minutes period, 30 minutes along X, Y and Z axis				
	IMPACT		10G for 20ms once on each X, Y and Z axis				
SAFETY	SAFETY REGULATION		UL, C-UL, CE	UL, C-UL, CE	UL, C-UL, CE	UL, C-UL, CE	
	LINE CONDUCTED RF VOLTAGE		Complied with FCC Part15 and EN55022 Class A Limits				

## MSF300-S SPECIFICATIONS



MODEL		MSF300-24	MSF300-28	MSF300-36	MSF300-48		
INPUT	VOLTAGE, FREQUENCY		AC100-120V / 200-240V (AC90 ~ 132V / 180 ~ 264V or DC255 ~ 370V), 50/60Hz (47 ~ 440Hz) User Selectable				
	CURRENT	[A]	110V	7.0 (I <sub>o</sub> =100%)			
			220V	3.5 (I <sub>o</sub> =100%)			
	EFFICIENCY	[%]	110V	81 typ	82 typ	82 typ	83 typ
			220V				
INRUSH CURRENT		30A typ(AC IN 110V, I <sub>o</sub> =100%), 60A typ(AC IN 220V, I <sub>o</sub> =100%) at cold start.					
OUTPUT	VOLTAGE	[V]	24	28	36	48	
	CURRENT	[A]	13	11	8.5	6.5	
	REGULATION, LINE	[mV]	120 Max	140 Max	180 Max	240 Max	
	REGULATION, LOAD	[mV]	240 Max	280 Max	360 Max	480 Max	
	RIPPLE	[mVp-p]	240 Max	280 Max	360 Max	480 Max	
	RIPPLE, NOISE	[mVp-p]	290 Max	330 Max	410 Max	530 Max	
	TEMPERATURE DRIFT 0~+50°C	[mV]	360 Max	420 Max	540 Max	720 Max	
	RISE TIME	[ms]	500 max (AC IN 110V, I <sub>o</sub> =100%)				
	HOLDING TIME	[ms]	20 typ (AC IN 110V, I <sub>o</sub> =100%)				
PROTECTION CIRCUIT	OVER CURRENT PROTECTION		Works at over 110% of rating and recovers automatically				
	OVER VOLTAGE PROTECTION		Works at 115 ~ 140% of rating				
ELECTRICALLY ISOLATED	INPUT-OUTPUT		AC 3,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)				
	INPUT-CASE, FG		AC 2,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)				
	OUTPUT-CASE, FG		AC 500V 1 minute current 100mA, DC 500V 100MΩ (At room temperature & Humidity)				
ENVIRONMENT	OPERATING TEMP AND HUMID		-10 ~ +50°C, 20 ~ 90% RH(Non condensing)				
	STORAGE TEMP AND HUMID		-20 ~ +75°C, 20 ~ 90% RH(Non condensing)				
	VIBRATION		10 ~ 55Hz at 1G, 3 minutes period, 30 minutes along X, Y and Z axis				
	IMPACT		10G for 20ms once on each X, Y and Z axis				
SAFETY	SAFETY REGULATION		UL, C-UL, CE	UL, C-UL, CE	UL, C-UL, CE	UL, C-UL, CE	
	LINE CONDUCTED RF VOLTAGE		Complied with FCC Part15 and EN55022 Class A Limits				