ESF1000-S SPECIFICATIONS

	MODEL		ESF1000-3R3	ESF1000-05	ESF1000-09	ESF1000-12
INPUT	VOLTAGE, FREQUENCY		AC100-120V / 200-240V (AC90 ~ 132V / 180 ~ 264V or DC240 ~ 370V), 50/60Hz (47 ~ 440Hz) User Selectable			
	CURRENT [A]	110V	16.0 (I_o=100%)	22.0 (I_o=100%)		
		220V	8.0 (I_o=100%)	11.0 (I_o=100%)		
	EFFICIENCY [%]	110V	70 typ	78 typ	80 typ	81 typ
		220V				
	INRUSH CURRENT		30A typ(AC IN 110V, I_o=100%), 60A typ(AC IN 220V, I_o=100%) at cold start.			
OUTPUT	VOLTAGE	[V]	3.3	5	9	12
	CURRENT	[A]	200	200	111	83
	REGULATION, LINE	[mV]	25 Max	25 Max	45 Max	60 Max
	REGULATION, LOAD	[mV]	50 Max	50 Max	90 Max	120 Max
	RIPPLE	[mVp-p]	50 Max	50 Max	90 Max	120 Max
	RIPPLE, NOISE	[mVp-p]	100 Max	100 Max	140 Max	170 Max
	TEMPERATURE DRIFT 0~+50°C	[mV]	75 Max	75 Max	135 Max	180 Max
	RISE TIME	[ms]	800 Max (AC IN 110V/220V I_o=100%)			
	HOLDING TIME	[ms]	17 typ (AC IN 110V/220V I_o=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 1,500V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)			
	INPUT-CASE, FG		AC 1,500V 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		–			
	LINE CONDUCTED RF VOLTAGE		–			

ESF1000-S SPECIFICATIONS

	MODEL		ESF1000-15	ESF1000-24	ESF1000-28	ESF1000-48
INPUT	VOLTAGE, FREQUENCY		AC100-120V / 200-240V (AC90 ~ 132V / 180 ~ 264V or DC240 ~ 370V), 50/60Hz (47 ~ 440Hz) User Selectable			
	CURRENT [A]	110V	16.0 (I_o=100%)	22.0 (I_o=100%)		
		220V	8.0 (I_o=100%)	11.0 (I_o=100%)		
	EFFICIENCY [%]	110V	81 typ	83 typ	83 typ	85 typ
		220V				
	INRUSH CURRENT		30A typ(AC IN 110V, I_o=100%), 60A typ(AC IN 220V, I_o=100%) at cold start.			
OUTPUT	VOLTAGE	[V]	15	24	28	48
	CURRENT	[A]	67	42	36	21
	REGULATION, LINE	[mV]	75 Max	120 Max	140 Max	240 Max
	REGULATION, LOAD	[mV]	150 Max	240 Max	280 Max	480 Max
	RIPPLE	[mVp-p]	150 Max	240 Max	280 Max	480 Max
	RIPPLE, NOISE	[mVp-p]	200 Max	290 Max	330 Max	530 Max
	TEMPERATURE DRIFT 0~+50°C	[mV]	225 Max	360 Max	420 Max	720 Max
	RISE TIME	[ms]	800 Max (AC IN 110V/220V I_o=100%)			
	HOLDING TIME	[ms]	17 typ (AC IN 110V/220V I_o=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 1,500V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)			
	INPUT-CASE, FG		AC 1,500V 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		–			
	LINE CONDUCTED RF VOLTAGE		–			