

ESF850-S SPECIFICATIONS

	MODEL	ESF850-3R3	ESF850-05	ESF850-09	ESF850-12	ESF850-15	ESF850-24	ESF850-48	
INPUT	VOLTAGE, FREQUENCY	AC100-120V / 200-240V (AC90 ~ 132V / 180 ~ 264V or DC240 ~ 370V), 50/60Hz (47 ~ 440Hz) User Selectable							
	CURRENT [A]	110V	14.0 (I _c =100%)						18.0 (I _c =100%)
		220V	7.0 (I _c =100%)						9.0 (I _c =100%)
	EFFICIENCY [%]	110V	70 typ	78 typ	80 typ	81 typ	81 typ	83 typ	85 typ
220V									
	INRUSH CURRENT	30A typ(AC IN 110V, I _c =100%), 60A typ(AC IN 220V, I _c =100%) at cold start.							
OUTPUT	VOLTAGE [V]	3.3	5	9	12	15	24	48	
	CURRENT [A]	170	170	95	71	57	35.5	18	
	REGULATION, LINE [mV]	25 Max	25 Max	45 Max	60 Max	75 Max	120 Max	240 Max	
	REGULATION, LOAD [mV]	50 Max	50 Max	90 Max	120 Max	150 Max	240 Max	480 Max	
	RIPPLE [mVp-p]	50 Max	50 Max	90 Max	120 Max	150 Max	240 Max	480 Max	
	RIPPLE, NOISE [mVp-p]	100 Max	100 Max	140 Max	170 Max	200 Max	290 Max	530 Max	
	TEMPERATURE DRIFT 0~+50°C [mV]	75 Max	75 Max	135 Max	180 Max	225 Max	360 Max	780 Max	
	RISE TIME [ms]	800 Max (AC IN 110V/220V I _c =100%)							
	HOLDING TIME [ms]	17 typ (AC IN 110V/220V I _c =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	-							

ESF850A-S SPECIFICATIONS

	MODEL	ESF850A-05	ESF850A-12	ESF850A-15	ESF850A-24	ESF850A-48
INPUT	VOLTAGE, FREQUENCY	AC100-120V / 200-240V (AC90 ~ 132V / 180 ~ 264V or DC255 ~ 370V), 50/60Hz (44~440Hz) User Selectable				
	CURRENT [A]	110V	18.0 (I _c =100%)			
		220V	9.0 (I _c =100%)			
	EFFICIENCY [%]	110V	78 typ	81 typ	81 typ	83 typ
220V						
	INRUSH CURRENT	30A typ(AC IN 110V, I _c =100%), 60A typ(AC IN 220V, I _c =100%) at cold start.				
OUTPUT	VOLTAGE [V]	5	12	15	24	48
	CURRENT [A]	170	71	57	36	18
	REGULATION, LINE [mV]	25 Max	60 Max	75 Max	120 Max	240 Max
	REGULATION, LOAD [mV]	100 Max	120 Max	150 Max	240 Max	480 Max
	RIPPLE [mVp-p]	100 Max	120 Max	150 Max	240 Max	480 Max
	RIPPLE, NOISE [mVp-p]	150 Max	170 Max	190 Max	290 Max	530 Max
	TEMPERATURE DRIFT 0~+50°C [mV]	50 Max	120 Max	150 Max	240 Max	430 Max
	RISE TIME [ms]	800 Max (AC IN 110V/220V I _c =100%)				
HOLDING TIME [ms]	10 typ (AC IN 110V/220V I _c =100%)					
PROTECTION CIRCUIT	OVER CURRENT PROTECTION	Works at over 110% of rating and recovers automatically				
	OVER VOLTAGE PROTECTION	Works at 115 ~ 140% of rating Protection type: Shut down o/p voltage, re-power on to recover				
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	-				