

ORDERING INFORMATION

**ESF15-3R3** □ □

Series name

Total output wattage

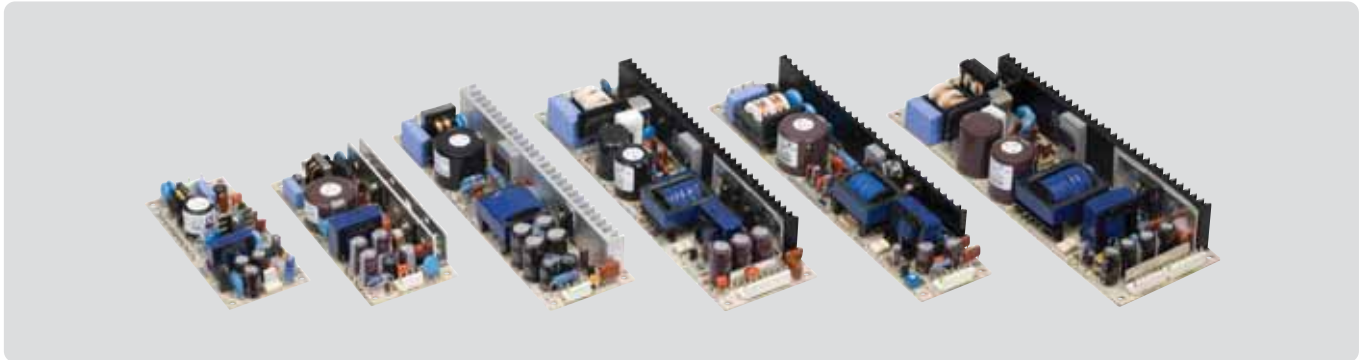
Output voltage combination(ex.3.3V)

Option

None : None case type

B : Bottom, Top case type

- Low cost
- Built-in inrush current protection
- Short circuit protection
- Over voltage protection
- Non-casing type  
(only ESFL/H100-S is case type)
- 2 years warranty



ESF15-S SPECIFICATIONS



MODEL		ESF15-3R3	ESF15-05	ESF15-09	ESF15-12	ESF15-15	ESF15-24
INPUT	VOLTAGE, FREQUENCY	AC100-240V (AC85 ~ 264V or DC125 ~ 370V), 50/60Hz (47 ~ 440Hz) Universal Input					
	CURRENT	110V	0.37 (I <sub>c</sub> =100%)				
		220V					
	EFFICIENCY	110V	72 typ	72 typ	75 typ	75 typ	76 typ
220V							
INRUSH CURRENT		20A typ(AC IN 110V, I <sub>c</sub> =100%), 40A typ(AC IN 220V, I <sub>c</sub> =100%) at cold start.					
OUTPUT	VOLTAGE [V]	3.3	5	9	12	15	24
	CURRENT [A]	3	3	1.6	1.2	1	0.6
	REGULATION, LINE [mV]	25 Max	25 Max	45 Max	60 Max	75 Max	120 Max
	REGULATION, LOAD [mV]	50 Max	50 Max	90 Max	120 Max	150 Max	240 Max
	RIPPLE [mVp-p]	50 Max	50 Max	90 Max	120 Max	150 Max	240 Max
	RIPPLE, NOISE [mVp-p]	100 Max	100 Max	135 Max	180 Max	225 Max	290 Max
	TEMPERATURE DRIFT 0~+50°C [mV]	49.5 Max	75 Max	135 Max	180 Max	225 Max	360 Max
	RISE TIME [ms]	500 Max (AC IN 85V I <sub>c</sub> =100%)					
HOLDING TIME [ms]	10 typ (AC IN 85V I <sub>c</sub> =100%)						
PROTECTION CIRCUIT	OVER CURRENT PROTECTION	Works over 110% of rating and recovers automatically					
	OVER VOLTAGE PROTECTION	-					
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 ~ +60°C, 20 ~ 90% RH(Non condensing)					
	STORAGE TEMPAND 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	UL, C-UL, CE	UL, C-UL, CE
	LINE CONDUCTED RF VOLTAGE	-					