

### CSF30-TRIPLE SPECIFICATIONS

MODEL		CSF30-DD			CSF30-EE			
INPUT	VOLTAGE, FREQUENCY		AC100-240V (AC85~264V or DC120~370V), 50/60Hz (47~440Hz or DC), Universal input voltage					
	CURRENT		0.65A typ (ACIN 110V, I <sub>o</sub> =100%), 0.35A typ (ACIN 220V, I <sub>o</sub> =100%) at cold start.					
	EFFICIENCY		ACIN 110V = 69% / ACIN 220V = 70%		ACIN 110V = 69% / ACIN 220V = 70%			
	INRUSH CURRENT		20A typ (ACIN 110V, I <sub>o</sub> =100%), 40A typ (ACIN 220V, I <sub>o</sub> =100%) at cold start.					
OUTPUT	VOLTAGE	[V]	5	12	12	5	15	15
	CURRENT	[A]	0.3~3.0	1.3	0.3	0.3~3.0	2.8	0.2
	REGULATION, LINE	[mV]	25 Max	120 Max	120 Max	25 Max	150 Max	150 Max
	REGULATION, LOAD	[mV]	50 Max	120 Max	120 Max	50 Max	150 Max	150 Max
	RIPPLE	[mVp-p]	80 Max	120 Max	120 Max	80 Max	120 Max	120 Max
	RIPPLE, NOISE	[mVp-p]	120 Max	150 Max	150 Max	120 Max	150 Max	150 Max
	TEMPERATURE DRIFT 0~+50°C	[mV]	75 Max	180 Max	180 Max	75 Max	225 Max	225 Max
	RISE TIME	[ms]	800 Max (ACIN 110V I <sub>o</sub> =100%)					
	HOLDING TIME	[ms]	16 typ (ACIN 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 115~114% of rating (except for CH2)					
ELECTRICALLY ISOLATED	INPUT-OUTPUT		AC3,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)					
	INPUT-FG		AC2,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)					
	OUTPUT-FG		AC500V 1 minute current 100mA, DC 500V 100MΩ (At room temperature & Humidity)					
ENVIRONMENT	OPERATING TEMP AND HUMID		-10~+70°C(Required Derating), 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 EMISSION PFHC	SAFETY REGULATION		CE, CB		CE, CB			
	LINE CONDUCTED RF VOLTAGE		Complied with FCC Part 15, VCCI-A, CISPR22-A, EN55022-A					

### CSF30-TRIPLE EXTERNAL VIEW

