



Features:

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Full output 3~48V safety approval
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- RCC control circuit and regulated
- LED indicator for power on
- Approvals: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE
- 1 year warranty

SPECIFICATION



ORDER NO.		ES18A03-P1J	ES18A05-P1J	ES18A07-P1J	ES18A09-P1J	FS18Δ12-D1 I	ES18A15-P1J	F\$18A18-D1 I	FS18A2A-D1 I	ES18A28-P1J	ES18A48-P1J	
OKDEK NO.												
ОИТРИТ	SAFETY MODEL NO.	ES18A03	ES18A05	ES18A07	ES18A09	ES18A12	ES18A15	ES18A18	ES18A24	ES18A28	ES18A48	
	DC VOLTAGE Note.2		5V	7.5V	9V	12V	15V	18V	24V	28V	48V	
	RATED CURRENT	2.72A	3.0A	2.0A	2.0A	1.50A	1.20A	1.0A	0.75A	0.64A	0.375A	
	CURRENT RANGE	0.3 ~ 2.72A	0.3 ~ 3.0A	0.3 ~ 2.0A	0.2 ~2.0A	0.15 ~ 1.50A			0.1 ~ 0.75A	0.06 ~ 0.64A		
	RATED POWER (max.)	9W	15W	15W	18W	18W	18W	18W	18W	18W	18W	
	RIPPLE & NOISE (max.) Note.3	50mVp-p	50mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-p	240mVp-p	
	VOLTAGE ADJ. RANGE	Fixed										
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION Note.6		±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
		300ms, 100ms, 16ms at full load										
INPUT	VOLTAGE RANGE	90 ~ 264VAC 135 ~ 370VDC										
	FREQUENCY RANGE	47 ~ 63Hz							I			
	EFFICIENCY (Typ.)	55%	70%	72%	72%	74%	77%	78%	80%	81%	82%	
	AC CURRENT	0.5A / 100VAC										
	INRUSH CURRENT (max.)		40A / 230VAC									
	LEAKAGE CURRENT(max.)		0.75mA / 240VAC									
PROTECTION	OVERLOAD	110 ~ 200% rated output power 130 ~ 350% rated output power										
		Protection type: Hiccup mode, recovers automatically after fault condition is removed										
	OVER VOLTAGE	105 ~ 135% rated output voltage										
		Protection type: Clamp by zener diode, output short										
ENVIRONMENT	WORKING TEMP.	0 ~ +50°C (Refer to output load derating curve)										
	WORKING HUMIDITY	20% ~ 90% RH non-condensing -20 ~ +85°C, 10 ~ 95% RH										
	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	±0.03% / °C (0~50°C)										
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes										
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943 Approved										
	WITHSTAND VOLTAGE	UL00930-1, CSA CZ2.2, TOV EN00930-1, BSMI CNS 14330, CCC GB4943 Approved I/P-O/P:3KVAC , I/P-FG:1.5KVAC										
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH										
	EMI CONDUCTION & RADIATION	Compliance to EN55022 class B, FCC PART 15 / CISPR22 class B, CNS13438 class B, GB9254 class B										
	HARMONIC CURRENT											
	EMS IMMUNITY	Compliance to EN61000-3-2,3, GB17625.1										
OTHERS	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, Light industry level, criteria A 500Khrs min. MIL-HDBK-217F(25°C)										
	DIMENSION	93*54*36mm (L*W*H)										
	PACKING	250g; 60pcs / 15kg / CARTON										
CONNECTOR	PLUG	Standard type P1J: $2.1\phi * 5.5\phi * 11$ mm, tuning fork type, center positive for stock; Other type available by customer requested										
	CABLE	Standard type UL1185 6ft (with ferrite core) for stock; Other type available by customer requested										
NOTE	1.All parameters are specified 2.DC voltage: The output volt 3.Ripple & noise are measure 4.Tolerance: includes set up 5.Line regulation is measure 6.Load regulation is measure	ers are specified at 230VAC input, rated load, 25°C 70% RH ambient. The output voltage set at point measure by plug terminal & 50% load. ise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. ncludes set up tolerance, line regulation, load regulation. ion is measured from low line to high line at rated load. tion is measured from 20% to 100% rated load supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets										
	File Name:ES18A-SPEC 2007-03										EC 2007-03-0	



