SPECIFICATIONS

IA754-01-01D

ITEMS			MODEL	EVA150-16	EVA300-8	EVA600-4			
OUTPUT RATING									
1	Rated Output Voltage	(*1)	V	150	300	600			
2	Rated Output Current	(*2)	Α	16	8	4			
3	Rated Output Power	(*1)	W		2400				
INP									
1	Input Voltage Range / Freg.	(*3)	-	Single Phase 170 ~ 265 Vac / 47 ~ 63Hz					
2	Efficiency (Typ.)	(*4)	%	88					
3	Maximum Input Current	(*4)	A	16.6					
4	Power Factor (Tvp.)	(*4)	-	0.99					
5	In-rush Current	(*5)	Α	Less than 50					
col		(•)							
1	Maximum Line Regulation	(*6)	_	0.1% of rated output voltage +20mV					
2	Maximum Load Regulation	(*7)	_	0.15% of rated output voltage ±50mV					
3	Ripple and Noise (p-p. 20MHz)	(*8)	mV.,	150	300	450			
4	Ripple r m s $5Hz - 1MHz$	(0)	mV _{PMS}	50	100	150			
5			nnm/°C		100	100			
6	Warm-up drift		-	Less than 0.2% of Rated Output Voltage over 30min following power on					
7	Remote Sense Compensation		_	Less than 0.2% of Rated Output Voltage over Somin following power on.					
8	Lin-prog Response time 0-Vomay	(*0)	me	100	150	300			
0	Down prog. Response time, 0-Vollax.	(*0)	me	200	300	600			
10	Down-prog. Response time, I dil Load	(*10)	me	200	3500	6500			
10	Transient Response Time	(10)	1115	Time for output volt	age to recover within 0.5	% of its rated output			
· ·	Hanslent Response Time			at 10~90% of rated output current. Output set point: 10~100%					
				at 10~90% of fated output current. Output set-point. 10~100%,					
12	Hold up time (Tup)			10mc Typical At rated output newor					
	- 10ms Typical. At rated output power.								
	Maximum Line Regulation	(*6)		0.1% of rated output current +20mA					
2	Maximum Load Regulation	(0)	-						
2		(*12)	- m^						
3	Temperature Coefficient	(12)	nnm/°C	00	100	10			
4	Verm up drift		ppin/ C						
			-			omin following power on.			
				151/+5% 0.24 May Load Rinnle & Noise 100m\/n.n					
l '	Output voltage . 15v	(14)	-	15V ±5%, 0.2A Max Load, Ripple & Noise 100mVp-p.					
2	Quitout Voltage : 5V	(*4 4)		Referenced internally to the negative output potential.					
2	Output voltage. 5v	(*14)	-	5V ±5%, 0.2A Max Load, Ripple & Noise 100mVp-p.					
				Releiend	ced internally to IF_COM	potential.			
AN/	ALUG PRUGRAMMING AND MONIT	OKING		10-1000/ 0 5-51	Acouracy and linearity	+1% of rotad Vaut			
		(*10)	-	10~100%, 0.5~5V. Accuracy and linearity: ±1% of rated Vout.					
2		(13)	-	U~100%, U~5V. Accuracy and linearity: ±1% of rated lout.					
3			-	$10 \sim 100\%$, 0.5~5kOhm tull scale.					
	Lout Desister Drearomming	(*40)		Accuracy and linearity: ±2% of rated Vout.					
4	Iout Resistor Programming	(*13)	-	0~100%, 0~5kOhm tull scale.					
<u> </u>				Accuracy and linearity: ±2% of rated lout.					
5			-	By electrical Voltage: 0~0.6V / 2~15V or dry contact,					
F	Default SO Control: SW1-5 Down			OFF - Low or Short. ON - High or Open.					
6			-	0~5V. Accuracy: ±1%					
7	Output Voltage Monitor		-	0~5V. Accuracy: ±1%					
8	Power Supply OK Signal		-	4~5V – OK, 0~0.6V – Fail. 500 ohm series resistance.					
9	Parallel Operation		-	Possible, up to 4units in master/slave mode					
				with two wires current balance connection.					

SPECIFICATIONS

IA754-01-02C

		MODEL	EVA150-16	EVA300-8	EVA600-4			
ANALOG PROGRAMMING AND MONITORING								
11	CV/CC Output Signal	-	Open collector Maxim	um Voltage: 30V maxim	um sink current [,] 10mA			
	evice capatoignal		CV mode – Open, CC mode – ON.					
12	Enable/Disable Input	-	Dry contact. Open – OFF, Short – ON.					
	(At SW1-9: Up)		Maximum Voltage at Enable/Disable input: 6V					
13	Local/Remote Analog Control	-	By electrical signal or Open/Short :					
	(At SW1-1 and/or SW1-2: Up)		0~0.6V or Short – Remote, 2~15V or open – Local.					
14	Local/Remote Analog Indicator	-	Open collector. Maximum voltage: 30V, maximum sink current: 10mA.					
	(At SW1-1 and/or SW1-2: Up)		Local – Open, Remote – ON.					
PRO	OGRAMMING AND READBACK (RS232 / 4	85)		•				
1	Vout Programming Accuracy	-	Within 150mV	Within 300mV	Within 600mV			
2	Iout Programming Accuracy(*13)	-	Within 48mA	Within 24mA	Within 12mA			
3	Vout Programming Resolution	-	Within 18mV	Within 36mV	Within 72mV			
4	Iout Programming Resolution	-	Within 1.92mA	Within 0.96mA	Within 0.48mA			
5	Vout Readback Accuracy	-	300mV	600mV	1200mV			
6	Iout Readback Accuracy (*13)	-	96mA	48mA	24mA			
/	Vout Readback Resolution	-	Within 18mV	Within 36mV	Within 72mV			
8		-	Within 1.92mA	Within 0.96mA	Within 0.48mA			
	DTECTION FUNCTIONS				C input roovala			
	Over voltage Frotection (OVF)	-	inventer shut-t		amond			
2	Quar Valtaga Trip Daint		of by communication port command.					
2	Over voltage The Politic	-	10%~110% of rated output voltage. Preset by communication port.					
J	Suput Shael Voltage Linit	_	Does not affect analog programming					
4	Over Temperature Protection	_	Inverter shut-down. User selectable, latched or non latched					
	A PANEL							
1	Indications CV Mode	_	Green LFD for CV Mode Operation					
2	Indications CC Mode	-	Green LED for CC Mode Operation					
3	Indications Out Indicator	-	Green LED, Lights when the output is "ON"					
4	Indications Alarm Indicator	-	Red LED, Blinks in case of fault condition (OVP, OTP, Output Off by ENA.AC Fail)					
EN\	/IRONMENTAL CONDITIONS		· ·					
1	Operating Temperature	-	-10°C ~ +45°C — 2400W (100% Load);					
			+	50°C – 2000W (83% Lo	ad);			
			+60°C – 1200W (50% Load);					
				+70°C — 240W (10	% Load);			
			$(+45^{\circ}C \sim +70^{\circ}C - \text{derate load by } 3.6\%/^{\circ}C).$					
2	Storage Temperature	-	-20°C ~ +85°C					
3	Operating Humidity	-	20~90%RH (No condensation)					
4	Storage Humidity	-	10~95%RH (No condensation)					
5	5 Altitude - Maximum 2000m							
MECHANICAL								
1	Cooling	-	Forced air cooling by internal fans.					
2	Weight (Typ.)	kg	Less than 7.5					
3	Size (W x H x D)	mm	250 x 86 x 445 (WxHxD) Refer to Outline Drawing.					
4	Ποιαιοη	-	MIL-810F, method 514.5. No Operating, 10.2m/s ² (1.04G) Constant.					
-			10~500HZ X,Y,Z each 1Hr.					
5	SNOCK	-	Less than 2	ue, nair sine, Tims. Uni	і із ипраскей.			

SPECIFICATIONS

IA754-01-03B

		MODEL	EVA150-16	EVA300-8	EVA600-4				
ITEMS									
SAF	SAFETY								
1	Withstand Voltage	-	Primary - Secondary Hazardous (Output / 15Vdc aux / Non Insulated Control):						
			4000VDC/1min						
			Primary - SELV (*15) (Communication / 5Vdc aux / Insulated Control):						
			4242VDC/1min						
			Primary - Ground:						
			2828VDC 1min.						
			Secondary Hazardous (Output / 15Vdc aux / Non Insulated Control) -						
- SELV (*15)			- SELV (*15) (Commun	(*15) (Communication / 5Vdc aux / Insulated Control):					
		3550VDC/1 min							
Secondary Hazard			Secondary Hazardous	ous(Output / 15Vdc aux / Non Insulated Control) - Ground:					
			2670VDC/1min.						
2	Insulation Resistance OUTPUT to GND	-	More than 100Mohm at 25°C 70%RH.						
3	Safety	-	UL 60950-1: 2007 (Ed.2), IEC 60950-1: 2005 (Ed.2),						
		EN 60950-1: 2006 (Ed.2) + A11: 2009			1: 2009				
EMC									
1	Immunity	-	Designed to meet IEC61000-4-2(Level 3,2), -3(Level 2), -4(Level 3),						
			-5(Level 3), -6(Level 2), -8(Level 1), -1						
2	Conductive Emission	-	Designed to meet EN55022-class A, FCC-Part 15 class A, VCCI-class A						
3	Radiated Emission	-	Designed to meet EN55022-class A, FCC-Part 15 class A, VCCI-class A						

=NOTES=

- *1. Minimum voltage is guaranteed to maximum 10% of the rated output voltage.
- *2. Minimum current is guaranteed to maximum 1% of the rated output current.
- *3. For cases where conformance to various safety standards (UL, IEC etc.) is required, to be described as 190 240VAC (50/60Hz).
- *4. At 200VAC input with rated output power.
- *5. Not including EMI filter inrush current, less than 0.2ms.
- *6. At 170 265VAC, constant load.
- *7. From No load to Full load, constant input voltage. Measured at the sensing point in Remote Sense.
- *8. For 150V, 300V models: measured with JEITA RC-9131A (1:1) probe. For 600V model: measured with 10:1 probe.
- *9. From 10% to 90% or 90% to 10% of rated output voltage, with rated, resistive load.
- *10. From 90% to 10% of rated output voltage.
- *11. For load voltage change, equal to the unit voltage rating, constant input voltage.
- *12. The ripple is measured at 10 100% of rated output voltage and rated output current.
- *13. The constant current programming readback and monitoring accuracy does not include the warm-up and load regulation thermal drift.
- *14. Measured with JEITA RC-9131A (1:1) probe.
- *15. SELV (Safety Extra Low Voltage):
 - when Main Output is floating at any Output Voltage, or Main Output is grounded and Output Voltage ≤400Vdc, Communication, 5Vdc aux and Insulated Control circuits meet all requirements of the Standard for SELV circuits;
 - when Main Output is grounded and Output Voltage >400Vdc,

Communication, 5Vdc aux and Insulated Control circuits are Hazardous.