

90-130W

'S' Series Multi-Output

Description:

The 'S' series of AC/DC switching mode power supplies provide up to 130 Watts of continuous output power. They are UL 94V-1 compliant. All models meet FCC Part-15 class B and CISPR-22 class B emission Limits and are designed to comply with UL/c-UL(UL 60950-1:2nd Edition) , Intertek-GS(EN 60950-1:2nd Edition) and new CE requirements.



Features:

- IEC-320-C14 Input Inlet
- Optional Output Connector
- Single and Dual Output
- Input Surge Current, Over Voltage and Over Load protection
- Over Voltage Protection (Crowbar Design)
- Active Power Factor Correction
- Option : Mounting Tab and Desk Top
- Long Hold Up Time (50ms)
- Class I

Safety Approvals :



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V _{in}	Operate Voltage Range		90		260	VAC
f _{in}	Input Frequency		47		63	Hz
PF	Power Factor Correction	I _o =Full load, V _{in} =230 VAC	0.95		1	
P _o	Output Power Range	V _{in} =90 to 260VAC	0		130	W
V _o	Output Voltage Range		See rating chart			V
I _o	Output Current Range		See rating chart			A
I _{il}	Input Current (Low Line)	I _o =Full load, V _{in} =115VAC		1.7	3.2	A
I _{ih}	Input Current (High Line)	I _o =Full load, V _{in} =230VAC		0.7	1.7	A
I _{rl}	Low Line Inrush Current	I _o =Full load, 25°C ,Cool start, V _{in} =115VAC		15	30	A
I _{rh}	High Line Inrush Current	I _o =Full load, 25°C, Cool start, V _{in} =230VAC		30	60	A
Eff	Efficiency	I _o =Full Load, V _{in} =230VAC		80	85	%
REG-i	Line Regulation	I _o =Full Load		0.5	1	%
REG-o	Load Regulation	V _{in} =230VAC		3	10	%
OVP	Over Voltage Protection		112		132	%
OCP	Over Current Protection		110		150	%
T _{tr}	Time of Transient Response	I _o =Full Load to Half Load, V _{in} =100VAC			4	mS
Thold	Hold-Up Time	I _o =Full Load, V _{in} =110VAC	50			mS
T _s	Start Up Time	I _o =Full Load, V _{in} =100VAC	0.3	1	2	S
* V _{p-p}	Ripple & Noise (Peak to Peak)	Full Load, V _{in} =90VAC		0.5	1	%
I _{lk}	Safety Ground Leakage Current	I _o =Full Load, V _{in} =240VAC		0.5	0.75	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C

* Note: The Ripple & Noise which is under 3.3VDC at 2% max

Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
T _{oper}	Operating Temperature		0	25	70	°C
T _{stg}	Storage Temperature		-40		85	°C
H _o	Operating Humidity		0		95	%
H _r	Storage Humidity		0		75	%
P _d	Derate linearly from 100% load at 25°C to 50% load at 70°C					

Safety Specifications:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
Vpg	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121			VDC
Ris	Isolation Resistance	Test Voltage=500VDC	50			MΩ
CISPR	EMI requirements for CISPR-22	Vin=220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	Vin=110VAC	B			CLASS

Output Voltage And Current Rating Chart (Single Output):

Base Part Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
A050180SP1	3 ~ 5 VDC	30.00 ~ 18.00 A	7%	90W
A060192SP1	5 ~ 6 VDC	23.00 ~ 19.16 A	7%	115W
A075173SP1	6 ~ 8 VDC	21.60 ~ 16.25 A	7%	130W
A090144SP1	8 ~ 11 VDC	16.25 ~ 11.80 A	5%	130W
* A120108SP1	11 ~ 13 VDC	11.80 ~ 10.00 A	5%	130W
A150087SP1	13 ~ 16 VDC	10.00 ~ 8.12 A	5%	130W
A180072SP1	16 ~ 21 VDC	8.12 ~ 6.19 A	5%	130W
A240054SP1	21 ~ 27 VDC	6.19 ~ 4.81 A	5%	130W
A300043SP1	27 ~ 33 VDC	4.81 ~ 3.93 A	5%	130W
A360036SP1	33 ~ 40 VDC	3.93 ~ 3.25 A	3%	130W
* A480027SP1	40 ~ 50 VDC	3.25 ~ 2.60 A	3%	130W
A520025SP1	50 ~ 55 VDC	2.60 ~ 2.36 A	3%	130W

Output Voltage And Current Rating Chart (Multi Output):

Part Number	Output #1				Output #2				Maximum Output Power
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	
* A3320-1202SP1	+3.3V	4A	20A	7%	+12V	0A	2A	5%	90W
A0520-1202SP1	+5V	4A	20A	7%	+12V	0A	2A	5%	120W
A0510-1205SP1	+5V	2A	10A	5%	+12V	1A	5A	10%	110W
A0520-1502SP1	+5V	4A	20A	7%	+15V	0A	2A	5%	120W
A0520-2402SP1	+5V	4A	20A	7%	+24V	0.2A	2A	5%	120W

Mark *means FCC approval.

Mechanical Specifications :

