AC-DC

SPU31

stadium POWER

Features:

- Wide operating voltage 90 - 264 VAC, 47 -63 Hz
- IEC 320-C14 Input inlet
- Optional output connector
- Single output
- Energy star 2.0, Efficiency level V
- Class I
- 2 Year Warranty

SPU SERIES SPECIFICATIONS

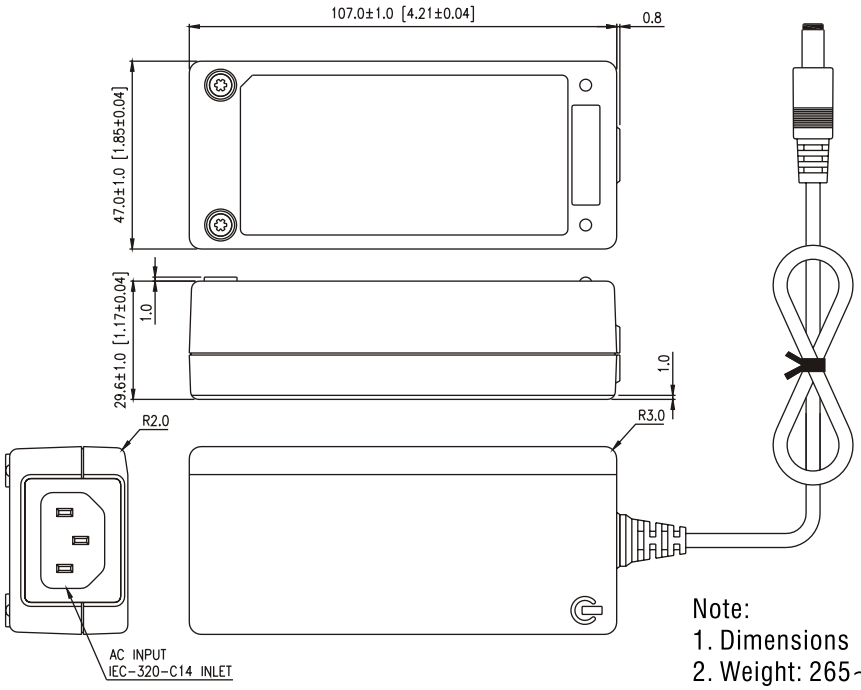
SYM	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
VIN	Safety Approvals Input Voltage Range	-	100	-	240	VAC
	Operate Voltage Range	-	90	-	264	VAC
FIN	Input Frequency	-	47		63	Hz
PO	Output Power Range	Vin=90 to 264 Vac	0	-	30	W
VO	Output Voltage Range	-	See Rating Chart			V
IO	Output Current Range	-	See Rating Chart			A
IIL	Input Current (Low Line)	Io = Full load, Vin = 115VAC	-	-	0.8	A
IIH	Input Current (High Line)	Io= Full load, Vin = 230VAC	-	-	0.5	A
IRL	Low Line Inrush Current	io= Full load, 25°C, Cool start, Vin = 115 VAC	-	23	28	A
IRH	High Line Inrush Current	io= Full load, 25°C, Cool start, Vin = 230 VAC	-	47	55	A
EFF	Efficiency	Io= Full load, Vin = 230VAC	73	81	90	%
REG-I	Line Regulation	Io= Full load	-	0.5	1	%
REG-O	Load Regulation	Vin = 230 VAC	-	3	7	%
OCP	Over Current Protection	-	110	-	150	%
TTR	Time of Transient Response	Io= Full load to Half load, Vin = 100VAC	-	-	4	mS
THOLD	Hold-up Time	Io= Full load, Vin = 110 VAC	12	-	-	mS
TS	Start up Time	Io= Full load, Vin = 100 VAC	0.3	1	2	S
VP-P	Ripple & Noise (Peak to Peak)	Full load, Vin = 90 VAC	-	0.5	1	%
ILK	Safety Ground Leakage Current	io= Full load, Vin = 240 VAC	-	0.5	0.75	mA
TC	Temperature Coefficient	All output	-0.04	-	0.04	%/°C
PNO	No Load Power Consumption	No load, Vin = 240 VAC	0	0.3	0.5	W
TOPER	Operating Temperature	-	0	40	70	°C
TSTG	Storage Temperature	-	-40	-	85	°C
HO	Operating Humidity	-	0	-	95	%
HR	Storage Humidity	-	0	-	75	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1M	-	-	Hrs
PD	Derate linearly from 100% load at 40°C to 50% load at 70°C					

SYM	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
VPS	Dieelectric WithstandingVoltage 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	-	-	M Ω
CISPR	EMI Requirements for CISPR-22	Vin=220VAC	B	-	-	CLASS
FCC	EMI Requirements for FCC Part-15	Vin = 110VAC	B	-	-	CLASS

MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT	TOTAL REGULATION	MAXIMUM OUTPUT POWER
SPU31A-102	5 ~ 6 VDC	4.00 ~ 3.33 A	5%	20 W
SPU31A-103	6 ~ 8 VDC	4.16 ~ 3.12 A	5%	25 W
SPU31A-104	8 ~ 11 VDC	3.75 ~ 2.72 A	5%	30 W
SPU31A-105	11 ~ 13 VDC	2.72 ~ 2.30 A	5%	30 W
SPU31A-106	13 ~ 16 VDC	2.30 ~ 1.87 A	5%	30 W
SPU31A-107	16 ~ 21 VDC	1.87 ~ 1.42 A	5%	30 W
SPU31A-108	21 ~ 27 VDC	1.42 ~ 1.11 A	3%	30 W
SPU31A-109	27 ~ 33 VDC	1.11 ~ 0.90 A	3%	30 W
SPU31A-110	33 ~ 40 VDC	0.90 ~ 0.75 A	3%	30 W
SPU31A-111	40 ~ 50 VDC	0.75 ~ 0.60 A	3%	30 W

SPU31-104-111 has been approved by CEC level V
SPU31-106 has been approved by KC
SPU31-101-105 are required to use AWG#16 / 4FT output cable
SPU31-106-108 are required to use AWG#18 / 4FT output cable
SPU31-109-111 are required to use AWG#18 / 6FT output cable
The regulation will be changed by modified output cable

SPU31 SERIES SPECIFICATIONS



Note:
1. Dimensions are shown in mm.
2. Weight: 265~280gs approx.
3. Optional output connector:
See page Appendix.