

STDA65 SERIES



65W/80W Desktop Power Supply for IT Equipment

- Wide Operating Voltage 90 to 260 VAC, 47 to 63Hz
- IEC-320-C14 input inlet
- Single to Quad Output
- Crowbar Mode Over Voltage Protection
- High Altitude of 5000m
- DoE VI (except STDA65-S01&STDA65-403)
- Class I system

3 Year Warranty

Approvals:

Single Output

Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power
* STDA65-S01	3 ~ 5 VDC	16.6 ~ 10.0 A	±7%	50W
STDA65-S02	5 ~ 5.99 VDC	13.0 ~ 10.8 A	±7%	65W
STDA65-S03	6 ~ 8 VDC	11.6 ~ 8.70 A	±5%	69.6W
STDA65-S04	8 ~ 11 VDC	9.37 ~ 6.81 A	±5%	75W
STDA65-S05	11 ~ 13 VDC	6.66 ~ 6.15 A	±5%	80W
STDA65-S06	13 ~ 16 VDC	6.15 ~ 5.00 A	±5%	80W
STDA65-S07	16 ~ 21 VDC	5.00 ~ 3.80 A	±5%	80W
STDA65-S08	21 ~ 27 VDC	3.80 ~ 2.96 A	±5%	80W
STDA65-S09	27 ~ 33 VDC	2.96 ~ 2.42 A	±3%	80W
STDA65-S10	33 ~ 40 VDC	2.42 ~ 2.00 A	±3%	80W
STDA65-S11	40 ~ 48 VDC	2.00 ~ 1.66 A	±3%	80W

* STDA65-S01 is not in compliance with DoE VI.

Multi Output

Model Number	Output 1				Output 2				Output 3				Output 4				Max. Output Power
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	
STDA65-D00	+3.3V	1.4A	7A	±7%	+12V	0.55A	2.75A	±5%									56.1W
STDA65-D01	+5V	0.7A	7A	±5%	+12V	0.7A	3A	±5%									65W
STDA65-D02	+5V	1.4A	7A	±5%	+15V	0.6A	3A	±6%									65W
STDA65-D03	+5V	1.4A	7A	±5%	+24V	0.4A	2A	±5%									65W
STDA65-D04	+3.3V	1.4A	7A	±7%	+5V	0.6A	3A	±5%									38.1W
STDA65-D15	+5V	1.4A	7A	±5%					-24V	0.4A	1A	±10%					59W
STDA65-T00	+3.3V	1.4A	7A	±7%	+12V	0.6A	3A	±5%	-12V	0.16A	0.8A	±5%					65W
STDA65-T01	+5V	0.6A	6A	±5%	+12V	0.3A	3A	±5%	-5V	0A	0.8A	±5%					65W
STDA65-T02	+5V	0.6A	6A	±5%	+12V	0.6A	3A	±5%	-12V	0A	0.8A	±5%					65W
STDA65-T03	+5V	0.6A	6A	±5%	+15V	0.6A	3A	±6%	-15V	0A	0.8A	±5%					65W
STDA65-T04	+5V	0.7A	7A	±5%	+24V	0.2A	2A	±5%	-24V	0A	0.8A	±5%					65W
STDA65-T05	+5V	0.6A	6A	±5%	+24V	0.2A	2A	±5%	-12V	0A	0.8A	±5%					65W
STDA65-T06	+3.3V	0.7A	7A	±7%	+12V	0.6A	3A	±5%	-5V	0A	0.8A	±5%					63.1W
*STDA65-403	+5V	0.6A	3.5A	±5%	+24V	0.1A	1.5A	±5%	+12V	0A	0.25A	±5%	-12V	0A	0.15A	5%	65W

*STDA65-403 is not in compliance with DoE VI.

STDA65-S01-S06 are required to use AWG#16X5C/4FT output cable.

STDA65-S07 are required to use AWG#16X2C/4FT output cable.

STDA65-S08~S09 are required to use AWG#18X2C/6FT output cable.

STDA65-S10~S11 are required to use AWG#20X2C/6FT output cable.

STDA65-DXX,TXX are required to use AWG#16X5C/4FT+core output cable.

STDA65-D00,D04,T00,T06 are required to use AWG#16X5C/2FT+core output cable.

The regulation and efficiency will be changed by modified output cable.

Electrical Characteristics(Single Output)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range		90		264	VAC
Input Frequency	Sine wave	47		63	Hz
Output Power Range	See Rating Chart			80	W
Low Line Input Current	Full load, Vin=100VAC		1.9		A
High Line Input Current	Full load, Vin=240VAC		0.79		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			30	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			72	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Efficiency	Full Load, Vin=230VAC	65		88	%
Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	3		7	%
Over Voltage Protection	Over Voltage Protection	112		132	%
Over Load Protection	Recovers automatically after fault condition is removed	110		150	%
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC			12	ms
Start Up Time	Full Load, Vin=100~240VAC			2	S
Ripple & Noise (Peak to Peak)				1	%
Temperature Coefficient	Full Load, Vin=100~240VAC			±0.04	%/°C
Dielectric Withstanding Voltage(P-S)	Primary to Secondary			4242	VDC
Dielectric Withstanding Voltage(P-G)	Primary to PE			2121	VDC
EMC Emission	Compliance to EN55022(CISPR22)			B	Class

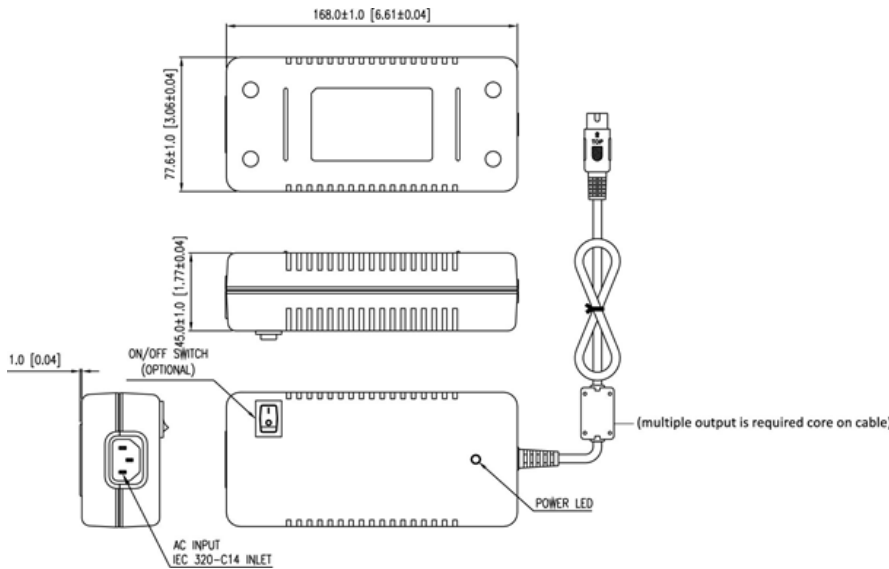
Environmental(Single Output)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Derate linearly from 100% load at 40 to 50% load at 70	-20		70	°C
Storage Temperature	10~95% RH	-40		85	°C
Operating Humidity	non-condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			8	KV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			4	KV
Mean Time Between Failure	Operation Temperature at 25 , Calculated per MIL-HDBK-217F	100K			h
Operating Altitude (Elevation)	All Condition			5000	m
Vibration	10~500Hz,10min./1cycle, 60min.each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	KV
Surge Voltage	Line-PE & Neutral-PE			2	KV

Environmental(Multi Output)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Derate linearly from 100% load at 40 to 50% load at 70	0		70	°C
Storage Temperature	10~95% RH	-40		85	°C
Operating Humidity	non-condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			8	KV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			4	KV
Mean Time Between Failure	Operation Temperature at 25 , Calculated per MIL-HDBK-217F	100K			h
Operating Altitude (Elevation)	All Condition			5000	m
Vibration	10~500Hz,10min./1cycle, 60min.each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	KV
Surge Voltage	Line-PE & Neutral-PE			2	KV

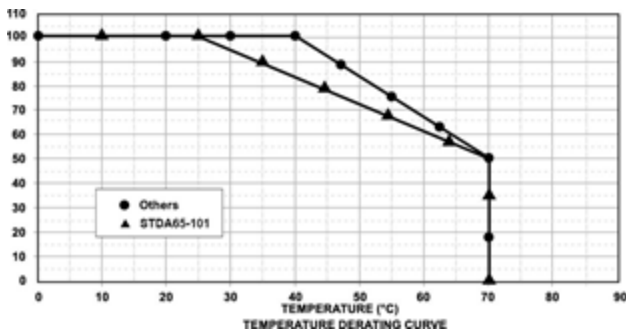
Mechanical Diagram



Note:

1. Dimensions are shown in mm & inch
2. Weight: approx. 450~700g approx. (Exclude the input cord)
3. Optional output connector.

Derating Chart



STDA65-S01

1. Operating Temperature: 0 to 70°C
2. Derate linearly from 100% load at 25°C to 50% load at 70°C

STDA 65-S02~S11, STDA65-DXX, STDA65-TXX, STDA65-4XX

1. Operating Temperature: 0 to 70°C
2. Derate linearly from 100% load at 40°C to 50% load at 70°C