

GENERAL DESCRIPTION

Sif65W USB 3.0 Type-C Power Delivery (PD) adapter is an ideal charging solution for mobile devices.

The 65W model follows PD3.0 profile 3 and has output voltages 5V, 12V & 15V to charge. In addition, with the latest USB 3.0 Type-C receptacle, it allows the USB 3.0 cable either up or down orientation and reversible plug-in. It delivers both low no-load power consumption (<300mW) and high average efficiency (>81%).

FEATURES

- 5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/3.25A
- Support for QC/ PD3.0
- SMPS Adaptor(Wall mount)
- Protections: SCP/ OCP.
- Full AC input voltage range design

Electrical Specification

Model Name	Sif65W1A2C				
Output					
Rated power	65W				
	TYPE-C				
Rated voltage	5V	9V	12V	15V	20V
Rated current	3A	3A	3A	3A	3.25A
	TYPE-A				
Rated voltage	5V		9V		12V
Rated current	3A		2A		1.5A
Ripple & Noise(max.) (note #1)	200mV				
Line & load regulation	±5%				
Input					
Rated voltage range	100~240Vac				
Operated voltage range	90~264Vac				
Current range (max.)	1.5A				
Inrush current (max.)	<80A @ 100~240Vac				
Frequency range	50-60Hz Nom				
Efficiency (Typ.)	81.39% / 65W				

Output Voltage and Current Range TYPE-C1+ TYPE-C2

	Voltage Range(V)		Current Range (A)		
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Nominal voltage
TYPE-C1	4.75V	5.3V	0A	3A	5V
	8.55V	9.45V	0A	3A	9V
	11.4V	12.6V	0A	3A	12V
	14.25V	15.75V	0A	3A	15V
	19V	21V	0A	2.25A	20V
TYPE-C2	4.75V	5.3V	0A	3A	5V
	8.55V	9.45V	0A	2.22A	9V
	11.4V	12.6V	0A	1.67A	12V

Output Voltage and Current Range TYPE-C1+ TYPE-A

	Voltage Range(V)		Current Range (A)		
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Nominal voltage
TYPE-C1	4.75V	5.3V	0A	3A	5V
	8.55V	9.45V	0A	3A	9V
	11.4V	12.6V	0A	3A	12V
	14.25V	15.75V	0A	3A	15V
	19V	21V	0A	2.25A	20V
TYPE-A	4.75V	5.3V	0A	3A	5V
	8.55V	9.45V	0A	2A	9V
	11.4V	12.6V	0A	1.5A	12V

Output Voltage and Current Range TYPE-C2+ TYPE-A

	Voltage Range(V)		Current Range (A)		
	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Nominal voltage
TYPE-C2	4.75V	5.3V	0A	3A	5V
TYPE-A	4.75V	5.3V	0A	3A	5V

Protection Function	
Over current (max.)	TYPE C1/C2: 110%-140% Input 100~240Vac ambient 25°C PPS: TYPE A-110%-140% Input 110~240Vac ambient 25°C
Short circuit at O/P	Auto recovery
Others	
MTBF	>30K hours at ambient 25°C
On-Off Life	To verify the power supply withstand 5,000 time on-off repetition of Primary power without failure or damage at 230Vac input
Burn-in	100% burn-in test at 80~100% of full/rating load at 25±5°C burn-in room, 72hrs test for prototype samples, 24hrs test for pilot run samples for 4hrs test for mass production
Turn on time	≤3 S tested at 115Vac input with full load
Hold Up Time	≥8mS @ 115Vac/60Hz, ambient 25°C Output full load
Environment	
Temperature	(operating) 0~40°C / (storage) -20~85°C
Humidity(max.)	(operating) 5%~ 90% RH / (storage) 0%~ 95% RH
Mechanical	
Dimension	68(L)*41.5(W)*31.5mm(H)
Safety	
Hi-pot test	3000Vac, 10mA 60sec. primary to secondary circuit
Insulation test	500Vdc , ≥100MΩ 60sec primary to secondary circuit .

Notes

#1: Ripple & Noise: input 100~230Vac/50Hz Output with full load .The measuring terminated with a 10uF AL-capacitor and 0.1uF CC-capacitor. And measurement is done by 20MHz band-width.

SAFETY AND EMC	
Type	Standards
UL/CUL	IEC 62368-1:2018 CSA/UL 62368-1:2019
TUV	J55032 (H29)

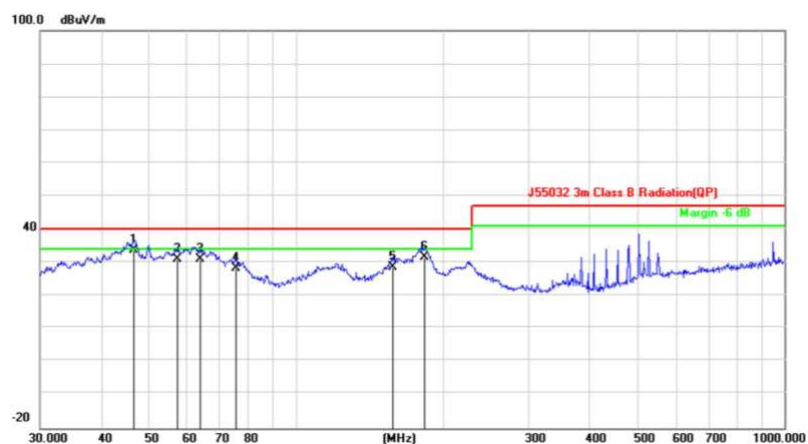
J55032 (H29)



M/N:
 Op Cond.: Output Mode 10 (C1: 12V/3A + C2: 5V/2.4A +A1 5V/2.4A)
 Comment: AC 100V/50Hz
 Tested on: Horizontal
 Detailed results are shown below



Op Cond.: Output Mode 10 (C1: 12V/3A + C2: 5V/2.4A +A1 5V/2.4A)
 Comment: AC 100V/50Hz
 Tested on: Vertical
 Detailed results are shown below





Mechanical Specification

