



100W Power Delivery 3.0 Desktop Adapter with USB-C Plug



Features

- Power Delivery 3.0
- USB-C
- US DoE Level VI Efficiency Compliance
- OVP, SCP, OTP
- Class B EMI

Applications

- Mobile Phone
- Tablet
- Networking Device
- Monitor
- Notebook



AA 100A Specifications¹

Model		AA100A-59FKC-R
Output	DC Output Voltage	5.0V/9.0V/15.0V/20.0V
	Max Current	3.0A/3.0A/3.0A/5.0A
	Output Power	15.0W/27.0W/45.0W/100.0W
	Regulation	± 5%
	Ripple & Noise P-P(max) ²	200mV (5V) / 250mV (9V) / 300mV (15V, 20V)
Input	AC Input Voltage Range	90 to 264VAC
	AC Input Frequency	47 to 63Hz
	Input Current	1.5A (RMS) max at 100VAC
	No Load Power Consumption at 115VAC Input	<0.15W (@Vo: 5V)
	No Load Power Consumption at 230VAC Input	<0.15W (@Vo: 5V)
	115VAC Average Efficiency ³	5V: >81.385%, 9V: >86.62%, 15V: >87.727%, 20V: >88.00%
	230VAC Average Efficiency ³	5V: >81.835%, 9V: >87.295%, 15V: >88.852%, 20V: >89.00%
	230VAC 10% Load Efficiency ³	5V: >72.48%, 9V: >77.295%, 15V: >78.852%, 20V: >79.00%
	Leakage Current	250uA max at 240VAC/50Hz
Protection	Over-Voltage	Max. output voltage can't be over 35% for Vo ≥ 15V and 50% for other Vo rating. Auto restart and no component damage.
	Short Circuit	Auto restart and no component damage.
	Over-Temperature	AC or DC latch off and no component damage.
Environmental	Operating Temperature	0°C to +35°C
	Non-Operating Temperature	-30° to +80°C
	Operating Humidity	10% to 90% RH max
Safety Approvals and EMC (Pending)	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min
	Insulation Resistance	Primary to Secondary: >30M ohm for 500VDC
	Standards	cULus 62368-1, IEC 62368-1
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B)
	Harmonic Current Emissions	IEC 61000-3-2
	Voltage Fluctuations & Flicker	IEC 61000-3-3
	Immunity	EN 55024/CISPR 24: IEC 61000-4-2 (+/-12kV air Criterion A, +/-15kV air Criterion B, +/- 8kV contact Criterion A), IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (+/-1kV L-N), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
Mechanical	Dimensions (L x W x H)	63.0mm (2.48in) x 63.0mm (2.48in) x 29.0mm (1.14in)
	Weight	250g ref.
	Cable Length	1800mm
	DC Output Connector	USB Type-C
Notes	<ol style="list-style-type: none"> The specifications defined are at ambient temperature of 25C, unless otherwise specified. 20MHz bandwidth frequency oscilloscope, add a 0.1µF multilayer Cap. and Low ESR Electrolytic Cap. (10µF) at output connector terminals (nominal line voltage, full load). Efficiency is measured after 30 minutes burn-in. 	



AA100A-59FKC-R Outline Drawing

