



45W USB Power Delivery 3.0 Wall Adapter with USB-C Plug



Features

- Power Delivery 3.0
- USB-C Output Connector
- Fixed Prongs for the USA and Canada
- US DoE Level VI Efficiency Compliance
- Over-Voltage, Over-Current, Short Circuit, & Over-Temperature Protection
- Class B EMI
- 5,000 Meter Operating Altitude

Applications

- Mobile Phones
- Tablets
- Peripheral Devices
- Networking Devices
- Monitors



AA45A-59FKE-R Specifications¹

Model		AA45A-59FKE-R
Output	DC Output Voltage	5.0V/9.0V/15.0V/20.0V
	Max Current	3.0A/3.0A/3.0A/2.25A
	Output Power	15.0W/27.0W/45.0W/45.0W
	Regulation	4.85V~5.55V/8.55V~9.45V/14.25V~15.75V/19V~21V
	Ripple & Noise P-P(max) ²	180mV (5V) / 200mV (9V) / 300mV (15V, 20V)
Input	AC Input Voltage Range	90 to 264VAC
	AC Input Frequency	47 to 63Hz
	Input Current	1.2A (RMS) max at 100VAC
	No Load Power Consumption at 115VAC Input	<0.075W
	115VAC Average Efficiency ³	5V: >81.385%, 9V: >87.295%, 15V: >88.852%, 20V: >88.852%
	Leakage Current	20uA max at 240VAC/50Hz
Protection	Over-Voltage	Max. output voltage cannot be over 35% for $V_o \geq 15V$ and 50% for other V_o ratings; latch mode & no component damage
	Short Circuit	Latch-mode
	Over-Current ⁴	The max. constant current shall be $\leq 3.6A$ for $V_o < 15V$; The max. constant current shall be 3.8A~4.2V for $V_o = 15V$ The max. constant current shall be 2.9A~3.3A for $V_o = 20V$
	Over-Temperature	Adapter must latch off and no component damage.
Environmental	Operating Temperature	0°C to +40°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 or 4242VDC for 1min
	Insulation Resistance	Primary to Secondary: >30M ohm at 500VDC
	Standards	cULus 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 55035/CISPR 35: IEC 61000-4-2 (+/-12kV air, +/- 8kV contact), 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)	53.0mm (2.09in) x 53.0mm (2.09in) x 28.5mm (1.12in)
	Cable Length	2,000mm
	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. With 30ms deglitch time. 	



AA45A-59FKE-R Outline Drawing

