

TECHNICAL DATA SHEET

PPL45A-59CFK



DESCRIPTION

This 45-watt USB-C Power Delivery 3.0 Wall Mount adapter features regulated output with low ripple noise.

It meets safety agency requirements and is EMI/EMS certified. Modified and custom designs are available.



RoHS

FEATURES

- ✓ IEC/EN/UL 62368-1 3rd Edition
- ✓ 100-240VAC Universal Input
- ✓ P.D. 3.0 / QC 4.0+ / QC 4.0
- ✓ Modified and Custom Design Available
- ✓ OVP, SCP, OCP





TECHNICAL DATA

Input

Voltage	100-240VAC
Line Frequency	50-60Hz
Current	45W : 1A-0.5A
Protection	Internal Primary Current Fuse

Output

Voltage	+5.0 V $\pm$ 5 % or +9.0 V $\pm$ 5 % or +12.0 V $\pm$ 5 % or +15.0 V $\pm$ 5 % or +20.0 V $\pm$ 5 % (PD 3.0) 5V ~ 21.0 V (PPS)
Current	3.0 A Max. (PD CV Mode , 5 V or 9 V or 12 V or 15 V) 2.25 A Max. (PD CV Mode , 20 V) 5V-16V 3A (2.6A~3.3A) (PPS CC Mode) 5V-21V 2.25A ($\pm$ 10 %) (PPS CC Mode)
Load Regulation	$\pm$ 5% (Typical)
Ripple & Noise	$\leq$ 200m Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS with 50% Load Change
Start-up Time	$<$ 3,000mS
Hold-up Time	$\geq$ 10mS @ Full Load
Rise Time	$<$ 50mS
Protection	Short Circuit Protection / Over Voltage Protection / Over Current Protection

Electrical

Topology	Switching Flyback
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current	$<$ 100 μ A
Leakage Current	
Efficiency	Meet DoE Level VI, ErP Stage 2, CoC Tier 2
EMC Standards	EN55011
MTBF	300,000 Calculated Hours at 25°C , by Telcordia SR-332

Environmental

Operating Temperature	-20 to + 40°C
Storage Temperature	-20 to + 80°C
Operating Altitude	5,000M
Relative Humidity	Operating : 20 to 80% RH Storage : 10 to 90% RH
Cooling	Natural Convection Cooling

Mechanical

Case Dimension	L 53.5 $\times$ W 31.5 $\times$ H 58 (mm)
Weight	PPL45A-59CFK 125g (Ref.)

Models

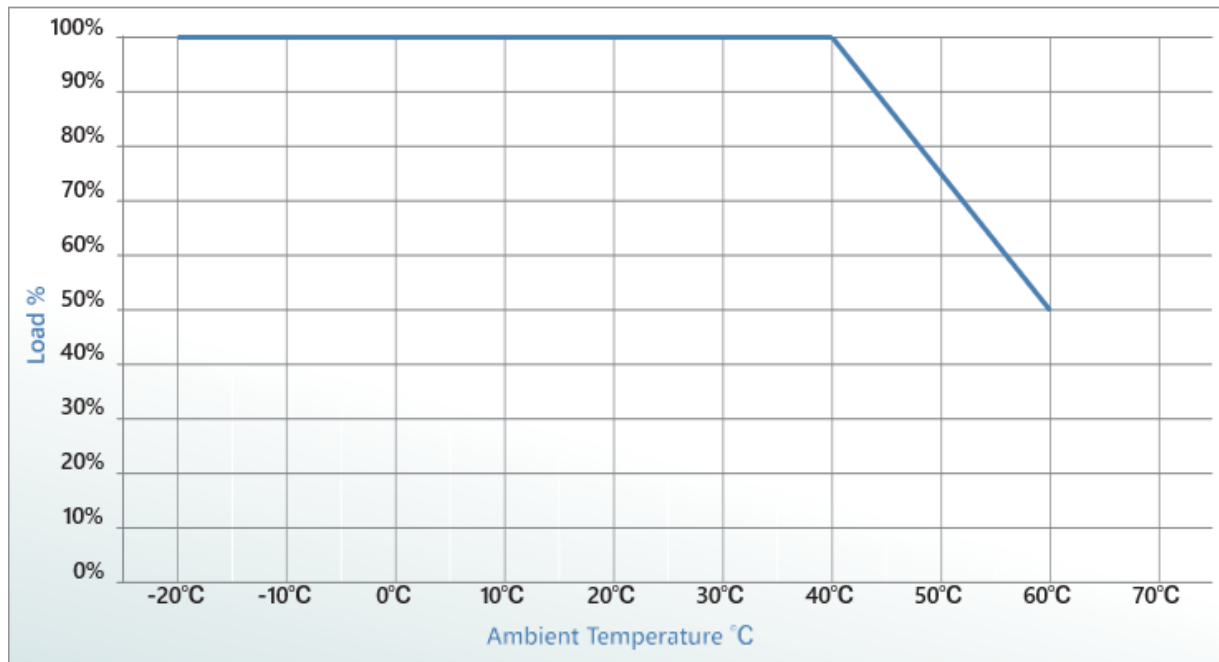
PPL45A-59CFK	O/P Voltage	O/P Current	Watt
	5.0V	3.00A	15W
	9.0V	3.00A	27W
	12.0V	3.00A	36W
	15.0V	3.00A	45W
	20.0V	2.25A	45W





TECHNICAL DATA

Derating Curve



PHIHONG 50 YEARS OF HISTORY IN THE POWER SUPPLIES INDUSTRY

Since its founding in 1972, Phihong has emerged as a prominent power supply company, serving as a key supplier of solutions for consumer, mobile/portable, enterprise, telecom, datacom, and industrial applications.

