



Features

- DOE Level VI Efficiency Compliant
- ErP/Ecodesign Directive 2009/125/EC Regulation EU 2019/1782 Compliant
- EU CoC Tier 2 Compliant (except 12V model)
- Over Voltage, Short Circuit and Over Current Protection
- Non-Vented/Spill-Proof Case
- Class B EMI

Applications

- Networking
- Peripherals
- Consumer Electronics

*NRCan approval for PPL36U-050, PPL36U-090, PPL36U-120L6. PPL36U-150, PPL36U-180, PPL36U-240, PPL36U-480 models only



PPL36U Series Specifications¹

	Model	PPL36U-050*	PPL36U-075	PPL36U-085	PPL36U-090*	
	DC Output Voltage	5.0V	7.5V	8.5V	9.0V	
	Max Current	5.0A	4.0A	3.52A	3.34A	
Output	Output Power	25.0W	30.0W	29.92W	30.06W	
	Regulation	± 6%	± 5%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	80mV	75mV	85mV	90mV	
	AC Input Voltage Range	90 to 264VAC				
	AC Input Frequency	47 to 63Hz				
	Input Current	1.0A max				
	Inrush Current	70A max., 230VAC (Cold Start at ambient 25°C)				
Input	No Load Power Consumption at 115VAC Input	0.056W	0.035W	0.058W	0.042W	
Input	No Load Power Consumption at 230VAC Input	0.076W	0.062W	0.08W	0.059W	
	115VAC Average Efficiency ³	86.5%	89.1%	88.6%	89.1%	
	230VAC Average Efficiency ³	86.4%	89.0%	88.7%	89.1%	
	230VAC 10% Load Efficiency ³	80.1%	85.0%	84.8%	82.9%	
	Leakage Current	<3.5mA				
Protection	Over-Voltage	180% max	180% max	180% max	180% max	
	Short Circuit	Auto-recover after short-circuit fault is removed				
	Over-Current	200% max	200% max	200% max	200% max	
	Operating Temperature	0°C to +40°C				
Environmental	Non-Operating Temperature	-20º to +80ºC				
	Operating Humidity		20 to -	29.92W ± 5% 85mV 0 to 264VAC 47 to 63Hz 1.0A max i (Cold Start at ambient 25°C) 0.058W 0.058W 0.058W 0.08W 88.6% 88.6% 88.7% 88.6% 88.7% 88.6% 88.7% 88.6% 88.7% 88.6% 88.7% 84.8% 200% max 200% max 200% max 20 to +80% ary: 3000VAC for 1min, 10mA dary: 10M ohm for 500VDC 368-1, IEC 62368-1 CAN ICES-003(B)/NMB-003(E) Cass B Conducted and Radiate C 61000-3-2 C 61000-3-2 C 61000-3-2 C 61000-3-3 000-4-2, IEC 61000-4-3, IEC 61000 20mm (1.97in) x 33mm (1.30in) 170g 1500mm 5.5mm x 10.0mm		
	Dielectric Withstand (HI-POT)	Prima	ary to Secondary: 30	30.0W 29.92W 30.06V ± 5% ± 5% ± 5% ± 5% ± 5% ± 5% 75mV 85mV 90mV 90 to 264VAC 47 to 63Hz 1.0A max 1.0A max 300VAC (Cold Start at ambient 25°C) 0.035W 0.042V .062W 0.08W 0.059V 89.1% 88.6% 89.1% 39.0% 88.7% 89.1% 39.0% 88.7% 89.1% 35.0% 84.8% 82.9% <3.5mA 30% max 180% max 180% m ar after short-circuit fault is removed 00% max 200% max 200% m 0°C to +40°C -20° to +80°C 20 to +80% 200% m Secondary: 3000VAC for 1min, 10mA 9 9 9 Secondary: 10M ohm for 500VDC 9 9 9 JLus 62368-1, IEC 62368-1 1 1 1 Iass B, CAN ICES-003(B)/NMB-003(B), PR 32 Class B Conducted and Radiated 1 1 IEC 61000-3-2 IEC 61000-4-2, IEC 61000-4-3, IEC 61000-	0mA	
	Insulation Resistance	Prir	mary to Secondary:		DC	
Sofoty	Standards		Primary to Secondary: 3000VAC for 1min, 10mA Primary to Secondary: 10M ohm for 500VDC cULus 62368-1, IEC 62368-1 C Part 15 Class B, CAN ICES-003(B)/NMB-003(
Safety Approvals and EMC	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated				
	Harmonic Current Emissions					
	Voltage Fluctuations & Flicker					
Immur	Immunity	EN 55024/CISPR 24: IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11				
	Dimensions (L x W x H)	100mm (3.94in) x 50mm (1.97in) x 33mm (1.30in)				
Mechanical	Weight	170g				
	Cable Length	1000mm		1500mm		
	DC Cable Type	16 AWG	16 AWG	18 AWG	18 AWG	
	DC Output Connector	2.1mm x 5.5mm x 10.0mm				
	DC Plug Pin Assignment	Inner (V+) / Outer GND (V-)				
	Input Connector		IEC 603	20 C14		

	Model	PPL36U-120L6*	PPL36U-135	PPL36U-150*	PPL36U-160	
	DC Output Voltage	12.0V	13.5V	15.0V	16.0V	
	Max Current	3.0A	2.66A	2.4A	2.25A	
Output	Output Power	36.0W	35.91W	36.0W	36.0W	
	Regulation	± 5%	± 5%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	120mV	135mV	150mV	160mV	
	AC Input Voltage Range	90 to 264VAC				
	AC Input Frequency	47 to 63Hz				
	Input Current	1.0A max				
	Inrush Current	70A m	ax., 230VAC (Col	d Start at ambient 2	25°C)	
	No Load Power Consumption at 115VAC Input	0.032W	0.038W	0.045W	0.043W	
Input	No Load Power Consumption at 230VAC Input	0.054W	0.064W	0.066W	0.07W	
	115VAC Average Efficiency ³	87.6%	88.4%	88.5%	88.1%	
	230VAC Average Efficiency ³	87.9%	88.4%	88.6%	88.4%	
	230VAC 10% Load Efficiency ³	84.9%	84.7%	84.4%	84.6%	
	Leakage Current		<3.5	ōmA		
	Over-Voltage	180% max	180% max	180% max	180% max	
Protection	Short Circuit	Auto-recover after short-circuit fault is removed				
	Over-Current	200% max	200% max	200% max	200% max	
	Operating Temperature	0°C to +40°C				
Environmental	Non-Operating Temperature	-20º to +80ºC				
	Operating Humidity		20 to	+80%		
	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA				
	Insulation Resistance	Primary to Secondary: 10M ohm for 500VDC				
0-1-1-	Standards		20 to +80% ry to Secondary: 3000VAC for 1min, 10mA hary to Secondary: 10M ohm for 500VDC cULus 62368-1, IEC 62368-1 t 15 Class B, CAN ICES-003(B)/NMB-003(B			
Safety Approvals and	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated				
EMC	Harmonic Current Emissions	IEC 61000-3-2				
	Voltage Fluctuations & Flicker	IEC 61000-3-3				
	Immunity	EN 55024/CISPR 24: IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11				
	Dimensions (L x W x H)	100mm (3.94in) x 50mm (1.97in) x 33mm (1.3in)				
	Weight	170g				
Mechanical	Cable Length	1500mm				
	DC Cable Type	18 AWG	18 AWG	18 AWG	18 AWG	
	DC Output Connector	2.1mm x 5.5mm x 10.0mm				
	DC Plug Pin Assignment	Inner (V+) / Outer GND (V-)				
	Input Connector	IEC 60320 C14				

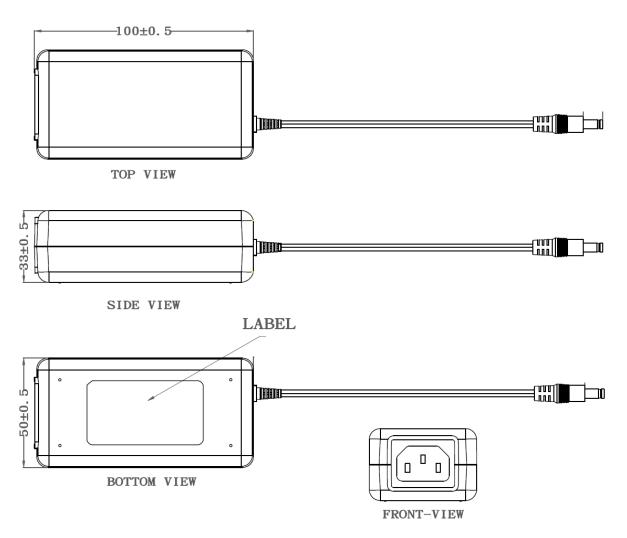
	Model	PPL36U-180*	PPL36U-240*	PPL36U-480 [*]	
Output	DC Output Voltage	18.0V	24.0V	48.0V	
	Max Current	2.0A	1.5A	0.75A	
	Output Power	36.0W	36.0W	36.0W	
	Regulation	± 5%	± 5%	± 5%	
	Ripple & Noise P-P(max) ²	180mV	240mV	480mV	
	AC Input Voltage Range	90 to 264VAC			
	AC Input Frequency	47 to 63Hz			
	Input Current	1.0A max			
	Inrush Current	70A max., 230VAC (Cold Start at ambient 25°C)			
	No Load Power Consumption at 115VAC Input	0.039W	0.046W	0.058W	
Input	No Load Power Consumption at	0.057W	0.064W	0.074W	
	230VAC Input 115VAC Average Efficiency ³	88.6%	89.2%	90.2%	
	230VAC Average Efficiency ³	88.5%	89.3%	89.8%	
	230VAC 10% Load Efficiency ³	83.5%	83.6%	83.5%	
	Leakage Current	<3.5mA			
	Over-Voltage	180% max	180% max	180% max	
Protection	Short Circuit	Auto-recover after short-circuit fault is removed			
	Over-Current	200% max	200% max	200% max	
	Operating Temperature	0°C to +40°C			
Environmental	Non-Operating Temperature	-20° to +80°C			
	Operating Humidity	20 to +80%			
	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA			
	Insulation Resistance	Primary to Secondary: 10M ohm for 500VDC			
	Standards	cULus 62368-1, IEC 62368-1			
Safety Approvals and	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated			
EMC	Harmonic Current Emissions	IEC 61000-3-2			
	Voltage Fluctuations & Flicker	IEC 61000-3-3			
	Immunity	EN 55024/CISPR 24: IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4 IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11			
	Dimensions (L x W x H)	100mm (3.94in) x 50mm (1.97in) x 33mm (1.3in)			
	Weight	170g			
Mechanical	Cable Length	1500mm			
	DC Cable Type	18 AWG	20 AWG	22 AWG	
	DC Output Connector	2.1mm x 5.5mm x 10.0mm			
	DC Plug Pin Assignment	Inner (V+) / Outer GND (V-)			
	Input Connector	IEC 60320 C14			
Notes		mbient temperature of 25C, unless otherwise specified. oscope, add a 0.1μF multilayer Cap. and Low ESR Electrolytic Cap. (10μF) at output connector load).			

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PPL36U Outline Drawing





Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information

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This device complies with/The devices in this product series comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



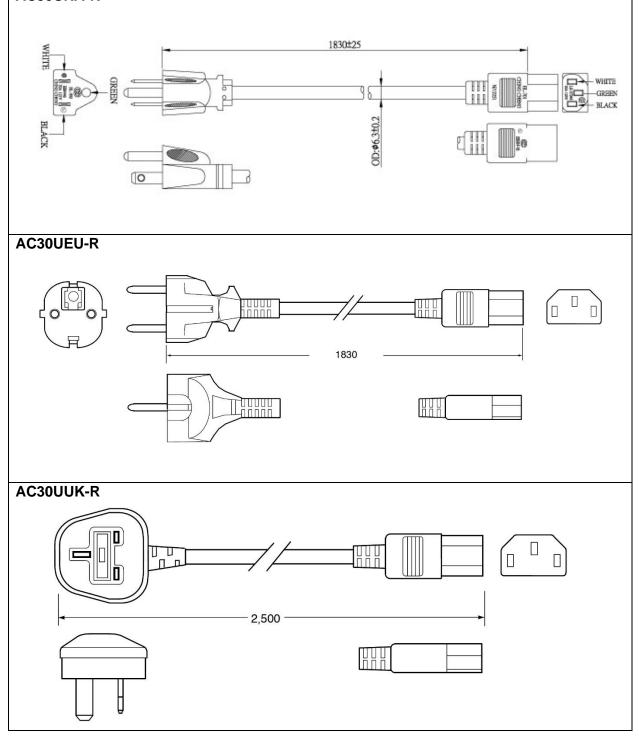
PPL36U Line Cords Sold Separately

Model		AC30UNA-R	AC30UEU-R	AC30UUK-R
	Plug Type	North America NEMA 5-15P	Continental Europe CEE 7VIII	United Kingdom BS 1363
	Connector	IEC320 C13	IEC320 C13	IEC320 C13
	Wire Size	18 AWG	0.75mm	1.0mm
Specifications	Temperature	60ºC	70ºC	70 °C
	Amperage Rating	10A	6A	10A
	Voltage Rating	125V	250V	250V
	Cable Length	1830mm	1830mm	2500mm
Safety Approvals		CSA; UL	CEBEC; DEMKO; DVE; FIMKO; GOST; IMQ; KEMA; NEMKO; NF; OVE; SEMKO	BSI; Safety Mark
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PPL36U Line Cords Outline Drawings

AC30UNA-R



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