

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









PHIHONG TECHNOLOGY

World Class Power Solutions









TABLE OF CONTENTS

Table of Contents	. 2
About Phihong	. 3
OEM Solutions	
Personal Electronics	. 5
Network Power and IP Security	. 7
Home Entertainment	. 9
Battery Chargers	11
Lighting Solutions	13
Standard Products	
LED Drivers	
Constant Current	15
Constant Voltage	18
Power Supplies	19
Adapters	
Fixed Wall Plug Adapters and Car Chargers	21
Thin/Small Adapters	22
Wall Plug Adapters with Interchangeable Clips	23
Desktop Adapters	25
Power-over-Ethernet	
Midspans and Splitters	
IEEE802.3af (15.4W)	27
IEEE802.3at (30W)	28
Ultra Power (60W-80W)	29
Mega Power (95W)	30
Passive Power-over-Ethernet	31
Power-over-Ethernet Extenders	32
Enterprise Class Midspan Management	33
RPS and PoE Accessories	34
Energy Efficiency Regulations	35
Worldwide Safety Compliance	38
EMC and RoHS	39
Quality	41
Manufacturing	43



About Phihong

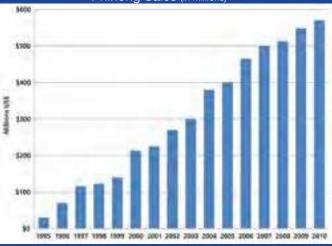
Since 1972, Phihong has been at the forefront of technological innovation in power electronics manufacture and design. By employing the latest in technology and research and development, Phihong's customers have continued to expect and receive the best possible products with on-time delivery and exceeding worldwide standards in efficiency and safety.

With a truly international span covering North America, Europe, and Asia, Phihong has design labs and local sales support centers in California, New York, The Netherlands, China, Japan, and Taiwan; Phihong is a top choice for OEMs serving datacom, telecom, personal electronics, networking, lighting, and industrial markets.

Focusing on engineering excellence, product reliability, and a commitment to customer service, sales have continued to grow proving a continued dominance in the power adapter industry with a broad line of cost competitive highly efficient products that comply with international standards.

OEMs also choose Phihong to partner on custom projects to meet the needs of very special programs not satisfied by the standard product offerings. With a long history in both standard and custom power designs, Phihong has one of the market's broadest lines of cost-competitive and highly reliable power solutions.

Phihong Sales (in millions)

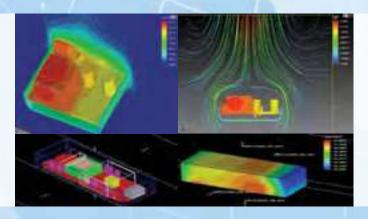


DEMONSTRATING ENGINEERING EXCELLENCE



Finite Element Analysis

- Virtually stress test materials in the design
- Reduce the number of prototypes
- Dramatically increase speed from development to production



Thermal Simulation

- Virtually simulate thermal stress tests for individual parts to full PCBs
- Analyze the heating and cooling of parts in relation to each other to accurately diagnose conflicts before they occur
- Reduce the number of prototypes needed for real time thermal stress tests



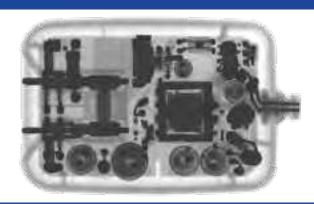
3D Scanning

- Verify prototype case tooling matches design
- Monitor structural changes accurately following stress tests for more detailed analysis
- Enhances integration with complex parts



Process Automation

- Increases production speeds, capacity, and overall product quality
- Minimizes costs as the cost of labor increases and reducing the need for manual processes



Non-Destructive Failure Analysis

- Analyze internal structure for quality without damage to external packaging
- Verify soldering and component connections are accurate and appropriate



Automated Optical Inspection

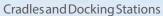
- All defects found; nothing overlooked by human error
- Quantitative measure instead of operator judgement using a complex algorithm to detect faults

PERSONAL ELECTRONICS

Offering a broad range of solutions and services that enable you to reduce your cost and time to market, Phihong is the strategic partner you need when it comes to high-volume OEM programs. Our global sales, manufacturing, and R&D network provides localized service and just-in-time delivery, so you can rely on us for comprehensive turn-key in-box and accessory solutions to retail packaging and blister packing. Whether it involves power, audio or data, Phihong has the solution and ability to ramp up production when you need it.







- Charging
- Spare battery charging
- Data interface capability



Battery Chargers

- Lithiumion/Lithiumpolymerchargers
- Spare battery charging
- AC or DC input
- Auxiliary handset charging



Small/Thin Adapters

- Constant-Current/ConstantVoltage
- **USB** output
- Level V efficient
- Low cost



Five-star standby











Fixed Blade Wall Plugs

- ConstantCurrent/ConstantVoltage
- Custom connectors
- EISA compliant



International Travel Chargers

- Accessories or in-box
- Worldwide compliance with limited SKUs



Vehicle Power Adapters
High efficiency

- Robust design
- CompliantwithEuropeanvehicle standards



Data Cables

- USB serial
- Combination charging
- Handset data cables
- Proposition65compliant

NETWORK POWER

Phihong products are used in many of the world's leading OEM networking systems. With our expertise in network power solutions, including power supplies, adapters, Power-over-Ethernet single and multi-port (8 to 48) midspans, and PoE and Data extenders, we can customize a number of different power products to suit your needs. Whether you choose standard or custom, external or internal, AC or RPS inputs, all our products have demonstrated MTBF exceeding millions of hours to guarantee reliability.

Phihong has the right power solution for your specific networking requirements.



Power Supplies for Switches and PoE Midspans

- 125-1kW
- AC and DC (RPS) input
- 8-48 ports IEEE802.3af
- Selected high power port
- 12C or serial interface





Redundant Power Solutions - RPS

- Low cost 1U 500-3.3kW n+1
- SELVand1500VACisolatedoutputs
- 85-264VAC operation
- Alarms and signals
- 1U battery packs



Features of Phihong's networking products:

- Network expertise
- 1U Power supplies produce up to 3kW
- Longcalculated product life 24/7 operation
- Leading high power PoE technology
- Member of UNH



IP SECURITY

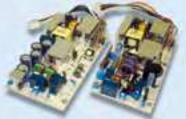
Phihong offers a broad line of Power-over-Ethernet solutions, including single-port and multi-port IEEE802.3af and IEEE802.3at compliant midspans, high-power ULTRA and MEGA PoE injectors, passive midspans, splitters, and extenders for the latest requirements as well as legacy products for the security market. Full power on every port means no power management is required and users may implement the latest in SNMP management for secure remote access to enterprise class midspans.





Extenders and Accessories

- ExtendPoEanddatabeyondIEEElimits
- Enhanced compatibility
- Install and test PoE locally
- Powermultipledevicesfromasingle Ethernet cable
- Worldwide compliance



High Density Mid and High Power Supplies

- 120-1kW 1U
- AC and DC inputs
- High efficiency
- 12C diagnostic interfaces



Low Cost SOHO Power Supplies

- 15-160W
- Single and multiple output
- · 1L
- · Worldwide compliance



PoE Midspans

- 1-24portsIEEE802.3afandatcompliant
- Full power every port
- SNMP
- 15.4-95W per port
- 14-60W splitters
- Indoor/Outdoor PoE extenders



HOME ENTERTAINMENT

Phihong manufactures a wide variety of products that reduce power consumption and enhance the efficiency and ease of use in home entertainment systems. Uniquely designed for each application, Phihong provides cost-effective custom solutions and turnkey programs to fit your exact needs.





- Color cases
- IEC60065 safety compliance
- Long life
- No AM/FM interference
- CECandworldwidecompliance
- Low cost
- Level V efficiency



Our universal input adapters, specifically designed for LCD TV, home entertainment, networking, and gaming applications decrease heat through an ultra-high efficiency topology in a tiny, low-profile package that meets the US Energy Independence and Security Act of 2007 and the European Union's newly required Ecodesign ErP Directive 2009/125/EC standards for external power supplies. For cost-effective, high-efficiency adapters and power supplies, Phihong can deliver the right solution for your home entertainment applications.











- Up to 10 outputs
- Standby power
- Low cost
- Low standby power



Custom Power Supplies

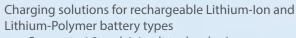
- Low profile
- No fans
- High efficiency
- Low standby power
- Very low noise

BATTERY CHARGERS

Phihong has extensive experience in consumer and commercial charger applications. We design and build a variety of fast, medium, and slow chargers for NiMH/NiCd and Li-lon chemistries. Charging solutions for Smart Battery Packs identify battery type, critical charging, and charge termination parameters and feature our micro-controlled charge control that can be used for any battery chemistry.







- Supports 4.2 and 4.4 volt technologies
- Thermal qualification
- IEEE P1725



Battery protection incorporated into each design includes:

- Over voltage / under voltage
- Over current
- Over temperature / under temperature
- Battery ID and cryptography identification





Charging solutions for rechargeable Nickel Metal Hydride and Nickel Cadmium battery types

- Temperature and voltage termination
- Advanced micro controller algorithms
- Charge maintenance

LIGHTING SOLUTIONS

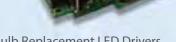
Phihong produces several different solutions for lighting including high efficiency electronic ballasts and highly reliable LED drivers for commercial, industrial, and residential applications. Backed by a solid warranty program, rigorous quality standards, 100% burn-in testing, and advanced life testing, our products meet the requirements for UL and CE markings as well as other industry safety and efficiency standards. Our commitment to quality, cost control, developing environmentally responsible power technologies, and customer service is supported by an extensive network of worldwide manufacturing, warehousing and service support centers.







- AvailableinConstantCurrent/ConstantVoltage
- Indoor/Outdoor or open frame design
- Standard dimming on outdoor units
- Low profile design for ease of integration
- Dimming via 0-10V, Dali, Zigbee, Zwave or 802.11 wireless



Bulb Replacement LED Drivers

- IncandescentandCFLbulbretrofits
- Universal AC input
- Low profile PCB design for ease of integration
- Minimizesneedforextracomponents













Fluorescent Ballasts

- Availableforbothfluorescentandcompact fluorescent fixtures
- T5, T8, and T12 ballasts available
- Parallel or serial wiring
- High ballast factor
- Dimming options
- Instant, rapid or programmable start
- MeetsULandNEMAandenablesfixturesto comply with ENERGY STAR standards



Down Light Fixtures

- Available for compact fluorescent or LED fixtures
- Directional or diffuse styles
- Housingmayberecessedorexternallysurface mounted



Linear Fluorescent Replacement

- Retrofit kits for existing lamp fixtures
- 2 foot, 4 foot, and 8 foot T10 replacement bulbs available
- Warm or cool lamp colors
- Universal input compatible

STANDARD CONSTANT CURRENT LED DRIVERS

108 to 132VAC Input LED Driver Triac Dimming





Rated	DC O	utput Vo	oltage	Ou	Output current Power		Γ <i>(</i> C =: = = = = .	IP	MadalNasa	
Wattage	Min.	Тур.	Max.	Min.	Тур.	Max.	Factor	Efficiency	Rating	Model Name
10W	25.96V	28.92V	30.02V	319mA	336mA	353mA	>0.90	>75%	65	PDA010N-336G

90 to 304VAC Input 4 Channel Output LED Driver 0-10V Dimming





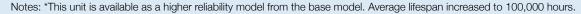
Rated	DC O	DC Output Voltage			Output current			Power	IP	Madal Nama
Wattage	Min.	Тур.	Max.	Min.	Тур.	Max.	Factor	Efficiency	Rating	Model Name
31W	22V	24.5V	26.5V	250mA	264mA	278mA	>0.90	>81%	65	PDA031W-264G
45W	22V	24.5V	26.5V	366mA	387mA	407mA	>0.90	>83%	65	PDA045W-387G
49W	22V	24.5V	26.5V	430mA	453mA	476mA	>0.90	>82%	65	PDA049W-445G

100 to 136 VAC Input Non-Dimming





Rated	DC Output Vol		oltage	Ou	tput curr	ent	Power	Efficiency	IP	Madal Nasa
Wattage	Min.	Тур.	Max.	Min.	Тур.	Max.	Factor	Efficiency	Rating	Model Name
12W	10V	-	43V	330mA	350mA	370mA	>0.50	>77%	20	PDA012B-350C
12W	10V	-	43V	330mA	350mA	370mA	>0.50	>77%	20	PDA012B-350C-H*





90 to 132 VAC Input Non-Dimming





Rated	DC O	utput Vo	oltage	Ou	Output current Power		Γ <i>(</i> C =: = = = =	IP	Madal Nama	
Wattage	Min.	Тур.	Max.	Min.	Тур.	Max.	Factor	Efficiency	Rating	Model Name
6W	2.5V	-	7.5V	650mA	700mA	750mA	>0.70	>70%	20	PDA006B-700C
10W	7.5V	-	12V	650mA	700mA	750mA	>0.95	>70%	20	PDA010B-700C
15W	17.5V	-	42V	300mA	350mA	400mA	>0.90	>78%	20	PDA015B-350C
30W	15V	-	42V	650mA	700mA	750mA	>0.95	>82%	20	PDA030B-700C

211 to 264 VAC Input Non-Dimming







Rated	DC Output Voltage			Output current			Power	Efficiency	IP	Model Name
Wattage	Min.	Тур.	Max.	Min.	Тур.	Max.	Factor	Emclency	Rating	Model Name
6W	2.5V	-	7.5V	650mA	700mA	750mA	>0.70	>70%	20	PDA006A-700C
10W	7.5V	-	12V	650mA	700mA	750mA	>0.70	>70%	20	PDA010A-700C
15W	17.5V	-	42V	300mA	350mA	400mA	>0.90	>77%	20	PDA015A-350C
30W	15V	-	42V	650mA	700mA	750mA	>0.95	>82%	20	PDA030A-700C

185 to 304 VAC Input Non-Dimming





Rated	DC O	utput Vo	oltage	Ou	tput curr	ent	Power Efficien	Efficiency	IP	Model News
Wattage	Min.	Тур.	Max.	Min.	Тур.	Max.	Factor		Rating	Model Name
12W	10V	-	43V	330mA	350mA	370mA	>0.50	>77%	20	PDA012A-350C
12W	10V	-	43V	330mA	350mA	370mA	>0.50	>77%	20	PDA012A-350C-H*

Notes: *This unit is available as a higher reliability model from the base model. Average lifespan increased to 100,000 hours.

STANDARD HIGH-VOLTAGE / CONSTANT CURRENT DRIVERS

90 to 304VAC Input LED Driver Non-Dimming High Voltage Output



FUCE

Rated	DC Output Voltage			Output current			Power	Efficiency	IP	Madal Nassa
Wattage	Min.	Тур.	Max.	Min.	Тур.	Max.	Factor	Efficiency	Rating	Model Name
100W	70V	-	142V	665mA	700mA	735mA	>0.90	>87%	66	PDA100E-700G
100W	47V	-	95V	1000mA	1050mA	1100mA	>0.90	>87%	66	PDA100E-1A0G
100W	35V	-	71V	1330mA	1400mA	1470mA	>0.90	>87%	66	PDA100E-1A4G
125W	90V	-	178V	665mA	700mA	735mA	>0.90	>87%	66	PDA125E-700G
125W	60V	-	119V	1000mA	1050mA	1100mA	>0.90	>87%	66	PDA125E-1A0G
125W	45V	-	89V	1330mA	1400mA	1470mA	>0.90	>87%	66	PDA125E-1A4G

90 to 304VAC Input LED Driver 0-10V Dimming High Voltage Output



FU CE

Rated	DC Output Voltage			Output current			Power	IP	Dua duat Nasa	
Wattage	Min.	Тур.	Max.	Min.	Тур.	Max.	Factor	Efficiency	Rating	Product Name
100W	70V	-	142V	665mA	700mA	735mA	>0.90	>87%	66	PDA100W-700G
100W	47V	-	95V	1000mA	1050mA	1100mA	>0.90	>87%	66	PDA100W-1A0G
100W	35V	-	71V	1330mA	1400mA	1470mA	>0.90	>87%	66	PDA100W-1A4G
125W	90V	-	178V	665mA	700mA	735mA	>0.90	>87%	66	PDA125W-700G
125W	60V	-	119V	1000mA	1050mA	1100mA	>0.90	>87%	66	PDA125W-1A0G
125W	45V	-	89V	1330mA	1400mA	1470mA	>0.90	>87%	66	PDA125W-1A4G



STANDARD CONSTANT VOLTAGE LED DRIVERS

90 to 304VAC Input
Open Frame LED Driver
Non-Dimming

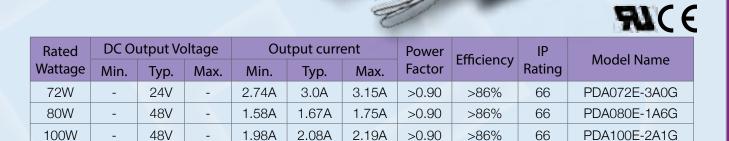


RICE

RICE

Rated	DC Output Volta		oltage	Ou	tput curre	ent	Power Efficiency		IP	Madal Nama	
Wattage	Min.	Тур.	Max.	Min.	Тур.	Max.	Factor	actor	Rating	Model Name	
90W	22.8V	24V	25.2V	0.2A	-	3.75A	>0.90	>85%	-	PSM090-240P	

90 to 304VAC Input LED Driver Non-Dimming



90 to 304VAC Input LED Driver 0-10V Dimming

Rated	DC O	utput Vo	ltage	Output current			Power	Efficiency	IP	Model Name
Wattage	Min.	Тур.	Max	Min.	Тур.	Max.	Factor	Efficiency	Rating	Model Name
72W	-	24V	-	2.74A	3.0A	3.15A	>0.90	>86%	66	PDA072W-3A0G
80W	-	48V	-	1.58A	1.67A	1.75A	>0.90	>86%	66	PDA080W-1A6G
100W	-	48V	-	1.98A	2.08A	2.19A	>0.90	>86%	66	PDA100W-2A1G

STANDARD POWER SUPPLIES

	Output	Output	Load	
Product Image	Output	Output	Load	Model Name
	Power	Voltage	Max.	
A 400	10W	3.3VDC	3.0A	PSA15LN3-033
		5VDC	3.0A	PSA15LN3-050
		9VDC	1.67A	PSA15LN3-090 †
1000	15W	12VDC	1.25A	PSA15LN3-120
	1011	15VDC	1.0A	PSA15LN3-150 †
		18VDC	0.83A	PSA15LN3-180 †
		24VDC	0.63	PSA15LN3-240
	16.5W	3.3VDC	5.0A	PSA25L-033 †
Chi Sala	20W	5VDC	4.0A	PSA25L-050 †
		12VDC	2.0A	PSA25L-120
Carrie Sugar		15VDC	1.7A	PSA25L-150
		5VDC	2.6A (3.0A pk)	PSA25L-201
O X YEAR		12VDC	1.0A (1.5A pk)	
	25W	5VDC	2.0A	701071 001
		12VDC	1.0A (1.5A pk)	PSA25L-301
		-12VDC	0.3A (0.5A pk)	D0 4 0 5 1 0 0 0 0 1
		3.3VDC	5.0A	PSA25LS-033 †
	0014#	5VDC	5.0A	PSA25LS-050 †
	33W*	3.3VDC	10.0A*	PSA45-033 †
	50W*	5VDC	10.0A*	PSA45-050
		12VDC	5.0A*	PSA45-120
A		15VDC	4.0A*	PSA45-150 †
		24VDC	2.5A*	PSA45-240
		5VDC	5.0A* (7.0A pk)	DO 4 4 5 0 4
		12VDC	2.5A* (4.0A pk)	PSA4531
	COM	-12VDC	0.5A* (1.0A pk)	
	60W	5VDC	5.0A* (7.0A pk)	DO 4 4 5 0 4
		15VDC -15VDC	2.0A* (3.0A pk)	PSA4534
		5VDC	0.5A* (1.0A pk)	
		12VDC	5.0A* (7.0A pk)	
			2.0A* (4.0A pk)	PSA4541
		-12VDC	0.5A* (1.0A pk)	
	50W	-5VDC 5VDC	0.5A* (1.0A pk) 10.0A	PSA60-105 †
	5000	12VDC	5.0A	PSA60-105 PSA60-112
		15VDC	4.0A	PSA60-115 †
		24VDC	2.5A	PSA60-113 PSA60-124
		48VDC	1.25A	PSA60-148 †
		5VDC	6.0A	F 3A00-140
. 0		24VDC	1.3A	PSA60-202 †
		5VDC	4.0A	
		12VDC	3.5A	PSA60-203
	60W	5VDC	6.0A	
	00 🗸	12VDC	2.2A	PSA60-301 †
		-12VDC	0.3A	1 0, 100 001
		5VDC	6.0A	
V. 100		12VDC	2.2A	PSA60-303 †
		-5VDC	0.5A	. 5, 100 000
		5VDC	6.0A	1
		15VDC	1.5A	PSA60-304 †
		-15VDC	0.5A	200 0017

Product Image	Output Power	Output Voltage	Load Max.	Model Name
		12VDC	5.42A*	PSA065-120 ‡
	65W	24VDC	2.71A*	PSA065-240 ‡
A. C.		48VDC	1.36A*	PSA065-480 ‡
- Alace	55W	5VDC	11.0A*	PSA075-050
	75\\/	12VDC	6.25A*	PSA075-120
	75W	24VDC	3.125A*	PSA075-240
A	75W	5VDC	15.0A*	PSA120-050
	OOM	12VDC	10.0A*	PSA120-120
	20W	24VDC	5.0A*	PSA120-240
	LOGINA	12VDC	13.3A*	DCA100 010
		12VDC <i>f</i>	0.4A*	PSA160-210
A STATE OF THE STA		24VDC	6.67*	PSA160-212 PSA160-218
		12VDC <i>f</i>	0.4A*	
	160W	48VDC	3.34A*	
		12VDC <i>f</i>	0.4A*	
-		56VDC	2.86A*	PSA160-216
		12VDC <i>f</i>	0.4A*	P3A10U-210
<u> </u>		50VDC	10.A	PSM500-210
	500W	12VDC sb	1.5A	F 31V1300-210
	30000	56VDC	9.0A	PSM500-216
		12VDC sb	1.5A	P3IVI3UU-216
	1100W	56VDC	19.65A*	DCM1000 010
	TTUUVV	12VDC sb	0.5A	PSM1000-210

Standard Power Supply Specifications

EMI	Class B
Input Line Voltage	90-264 VAC
AC Input Frequency	47-63 Hz
Hold-up Time	10-16mS @ Full Load, 115VAC
Over-Voltage Protection	Yes
Overload Protection	Short-circuit protection, with auto-restart
Operation Temperature	0 to +50°C*

Safety approvals may vary on certain models. See specific datasheet for exact information. *Somemodels feature higher operating temperature. See specific datasheet for exact specifications.

Notes: * Rating with forced air cooling

‡ Add 'M' to part number when ordering medical version

 \dagger Indicates special order model; minimum order quantity applies f Indicates fan output sb Indicates standby









Low-cost Fixed Wall Plug Adapters

FEATURES

- Universal input compatibility 90-264VAC
- Ecodesign ErP Directive 2009/125/EC compliant
- Customizable for OEMs
- Double insulated
- DC/USB tips may be changed to users' needs
- Compliance for Level V efficiency
- Lowest cost
- Class B EMI
- Over-voltage, over-current, and short-circuit protections

Product Image	Output Power	Output Voltage	Output Current	AC Prong Style	Model Name
				US	PSAA05A-050-R*
	5W	5V	1.00A	EU	PSAA05E-050-R* †
	SVV	5 V	1.00A	UK	PSAA05K-050-R* †
				AU	PSAA05S-050-R* †
				US	PSC12A-050-R †
_				China	PSC12C-050-R †
	10W	5V	2.00A	EU	PSC12E-050-R †
	10W	9V		UK	PSC12K-050-R †
				AU	PSC12S-050-S †
			9V 1.11A	US	PSC12A-090-R †
)				China	PSC12C-090-R †
				EU	PSC12E-090-R †
				UK	PSC12K-090-R †
				AU	PSC12S-090-R †
	12W	12V	1.00A	US	PSA12A-120-R
			1.00A	EU	PSA12E-120-R †
	24W		0.004	US	PSA24A-120(P)-R
	Z4VV	12V	2.00A	EU	PSA24E-120(P)-R †







Vehicle Power Adapters for Personal Electronics

Features

- Robust design
- US and EU compatibility
- Battery charging
- DC input voltage 10 to 30V
- High efficiency

Output Power	Output Voltage	Output Current	Model Name
5W	5V	1.0A	CLA05D-050(A)-R
10W	5V	2.0A	CLM10D-050(A)-R
10W	5V/5V	1.0A	CLM10D-203(M)-R*

^{*} Dual output model has 5V, 1A outputs via USB port and DC cable





^{† -} Refers to special order model; minimum order quantity applies * - This unit is terminated with Mini-USB in place of standard DC Cable

SMALL/THIN USB ADAPTERS

3W MOBILE USB ADAPTER

FEATURES

- 5-Star standby rating
- IEEE1725 approved for mobile phone charging
- Level V energy efficient
- Ecodesign ErP Directive 2009/125/EC compliant
- Halogen free (European models only)
- No Y caps

- Class B EMI
- CC/CV charge function
- Fixed blade for lowest cost
- Over-voltage/current and short-circuit protections
- Standard USB-A output
- Compact design 21mm thick

Product Image	Output Power	Output Voltage	Output Current	AC Prong Style	Model Name		
		75W 5V		US	PSM03A-050Q-R		
	2.75W		5V	5V	0.55A	EU	PSM03E-050Q-H †
				UK	PSM03K-050Q-H †		

Notes: † - Refers to special order model; minimum order quantity applies









F-Series Low Profile USB Adapter

FEATURES

- 5-Star standby rating
- IEEE1725 approved for mobile phone charging
- Level V energy efficient
- Ecodesign ErP Directive 2009/125/EC compliant
- Halogen free
- Over-voltage/current and short-circuit protections
- Class B EMI
- CC/CV charge function
- Folding prong fixed blade
- International field interchangeable clips
- Standard USB-A output
- Compact design 15mm thick

Product Image	Output Power	Output Voltage	Output Current	Model Name
	5W	5V	1.00A	PSA05F-050Q-H
				V ONTRE LOGIC CE

F-Series













USB CABLES

Description	Model	Length	Product Image
USB A to Mini-B USB Cable	IPUSB1CS	1.5m	96
USB A to Micro-B USB Cable	IPUSB1MS	1.5m	-

Devices that require USB cables: PSM03X, PSA05F, and PSB05R

Worldwide Wall Adapters with INTERCHANGEABLE AC CLIPS

FEATURES

- Universal input compatibility 90-264VAC
- Ecodesign ErP Directive 2009/125/EC compliant •
- Customizable for OEMs
- Field interchangeable AC clips for worldwide compatibility
- Double insulated
- SELV compliant

- Compliance for Level V efficiency
- DC / USB tips may be changed to user's needs
- Class B EMI
- Over-voltage, over-current, and short-circuit protections
- No load power saving
- WEEE, REACH, and RoHS compliant

R-Series AC Input Clips



PSB05R with RPK attachment

Model:	Description

RP Bag:	RPA, RPE, RPK, and RPS clips bundled				
RPA:	N. America	RPI:	India		
RPB:	Brazil	RPK:	UK		
RPC:	China	RPN:	Argentina		
RPE:	Europe	RPS:	AUS/NZ		

Safety Approvals

RPH: Korea

All Models:







RPX: IEC320 C8





User Customizable USB Connectors



Connector P/N	USB Type
C10	Straight USB Mini-B
C11	Straight Micro-USB







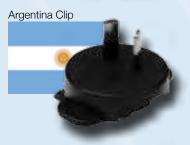




















Product Image	Output Power	Output Voltage	Output Current	Model Name
	5W	5V	1.00A	PSB05R-050Q-R
		5 1 /	4.004	PSAC05R-050(P)-R
	5W	5V	1.00A	PSAC05R-050(MB)-R *
		9V	0.56A	PSA05R-090-R
M	9W	5V	1.80A	PSAC09R-050-R **
	10W	5V	2.00A	PSC12R-050-R
	1000	9V	1.11A	PSC12R-090-R
-	12W	12V	1.00A	PSC12R-120-R
		5V	3.00A	PSA15R-050PV-R
		6V	2.50A	PSA15R-060PV-R
Jan B		9V	1.66A	PSA15R-090PV-R
	15W	12V	1.25A	PSA15R-120PV-R
(62)))		15V	1.00A	PSA15R-150PV-R
		24V	0.62A	PSA15R-240PV-R
		48V	0.31A	PSA15R-480PV-R
	16W	7.5V	2.00A	PSA15R-075PV-R
	18W	12V	1.50A	PSA18R-120-R †
	10W	3.3V	3.00A	PSAA20R-033-R
	15W	5V	3.00A	PSAA20R-050-R
		12V	1.67A	PSAA20R-120-R
	20W	24V	0.83A	PSAA20R-240-R
		48V	0.42A	PSAA20R-480-R
		12V	2.50A	PSAA30R-120-R
		15V	2.00A	PSAA30R-150-R
	30W	24V	1.25A	PSAA30R-240-R
	JOVV	56V	0.536A	PSAA30R-560-R
		12V	2.50A	PSAM30R-120-R M
		24V	1.25A	PSAM30R-240-R M
		12V	5.00A	PSA60R-120-R
	60W	24V	2.50A	PSA60R-240-R
Notes:		56V	1.07A	PSA60R-560-R h America, Continental Europe, the United

Kingdom, Australia/New Zealand, China, Korea, Brazil, Argentina, and India. For all other AC plug standards an IEC320 C8 clip for connection to a two-wire AC cord is available.

^{* -} This unit is terminated with Mini-USB in place of standard DC cable
** - This unit is terminated with Micro-USB in place of standard DC cable

^{† -} Refers to special order model; minimum order quantity applies
M - Refers to medical power supply; exempt from standard efficiency regulations

Universal Input Desktop Adapters

FEATURES

- Universal input compatibility 90-264VAC
- Double insulated
- Customizable for OEMS
- Ecodesign ErP Directive 2009/125/EC compliant
- Non-vented/spill-proof case
- Output range 18W to 120W
- Compliant for WEEE, RoHS, and REACH

- All models are compliant for Level V efficiency
- DC tips may be changed to user requirements
- Class B EMI
- Over-voltage, over-current, and short-circuit protections
- SELV compliant
- Fully isolated
- Operating temperature range 0 to +40°C

Safety Approvals

All Models:



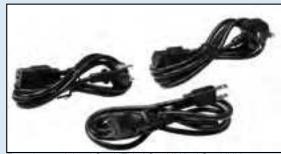




Select Models:



AC INPUT POWER CORDS



From left to right: AC30UEU, AC30UNA, AC30UUK

COMPATIBILITY GUIDE

AC Input	Description	Connector	Connecting Cable	Description
	Two wire length	100	AC15WNA	C7 North America power cord
	Two-wire Input		AC15WEU	C7 Continental Europe power cord
-	(C8)		AC15WUK	C7 United Kingdom power cord
	Three-wire Input (C6)	1	AC30MNA	C5 North America power cord "Mickey Mouse"
	TI		AC30UNA	C13 North America power cord
	Three-wire Input (C14)		AC30UEU	C13 Continental Europe power cord
		AC30UUK	C13 United Kingdom power cord	

USER CUSTOMIZABLE DC TIPS

Phihong offers customers the in-house capability to change USB and DC output connectors with no minimum order quantity requirement.

Straight Barrel Connectors

Connector P/N	Center Positive	Connector P/N	Center Negative
C1	2.1mm x 5.5mm x 10mm	CN1	2.1mm x 5.5mm x 10mm
C2	2.5mm x 5.5mm x 10mm	CN2	2.5mm x 5.5mm x 10mm
C3	1.7mm x 4.0mm x 10mm	CN3	1.7mm x 4.0mm x 10mm
C4	1.35mm x 3.5mm x 10mm	CN4	1.35mm x 3.5mm x 10mm
C5	0.7mm x 2.5mm x 10mm	CN5	0.7mm x 2.5mm x 10mm

Right Angle Connectors

Connector P/N	Center Positive	Connector P/N	Center Negative
CR1	2.1mm x 5.5mm x 10mm	CNR1	2.1mm x 5.5mm x 10mm
CR2	2.5mm x 5.5mm x 10mm	CNR2	2.5mm x 5.5mm x 10mm
CR3	1.7mm x 4.0mm x 10mm	CNR3	1.7mm x 4.0mm x 10mm
CR4	1.35mm x 3.5mm x 10mm	CNR4	1.35mm x 3.5mm x 10mm
CR5	0.7mm x 2.5mm x 10mm	CNR5	0.7mm x 2.5mm x 10mm