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PRODUCT SERIES 4: BUCK BOOST DC-DC CONVERTER



Part 1:

The following is:

12V DC Voltage Regulator

DC 12V to DC 12V 1A 12W Automatic Voltage Regulator Stabilizer Buck Boost Converter 24V
36V to 12V Power Converter
Part Number: ET41695235174A1



Product Name	DC 12V to DC 12V Converter
Brand	EZONED
Model	08401201S
Input rated voltage	DC 12V
Input voltage range	DC 8-40V
Efficiency	95%
Output voltage	12V
Output current	1A MAX
Output rated power	12W
Output peak power	15W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Module Properties	non-isolated module
Rectification	synchronous rectification
Waterproof rating	IP68
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature, Instant absorption of high voltage protection waterproof IP68 design, anti-shock protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	97g
Product size	58*40*22mm
Attention:	
Please install according to the the label strictly,positive pole and negative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.	

DC 12V to DC 12V 2A 24W Automatic Voltage Regulator Stabilizer Buck Boost Converter 24V
36V to 12V Power Converter
Part Number: ET41695235174A2



Product Name	DC DC Converter
Brand	EZONEDE
Model	08401202S
Input rated voltage	DC 12V
Input voltage range	DC 8-40V
Efficiency	95%
Output voltage	12V
Output current	2A MAX
Output rated power	24W
Output peak power	28W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Module Properties	non-isolated module
Rectification	synchronous rectification
Waterproof rating	IP68
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature, Instant absorption of high voltage protection waterproof IP68 design, anti-shock protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	97g
Product size	58*40*22mm
Attention:	
Please install according to the the label strictly, positive pole and nagative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.	

DC 12V to DC 12V 3A 36W Automatic Voltage Regulator Stabilizer Buck Boost Converter 24V
36V to 12V Power Converter
Part Number: ET41695235174A3



Product Name	DC DC Converter
Brand	EZONEDE
Model	08401203S
Input rated voltage	DC 12V
Input voltage range	DC 8-40V
Efficiency	95%
Output voltage	12V
Output current	3A MAX
Output rated power	36W
Output peak power	40W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Module Properties	non-isolated module
Rectification	synchronous rectification
Waterproof rating	IP68
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature, Instant absorption of high voltage protection waterproof IP68 design, anti-shock protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	97g
Product size	58*40*22mm
Attention:	
Please install according to the the label strictly, positive pole and nagative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.	

DC 12V to DC 12V Converter 5-32VDC to 12VDC 1A 12W Voltage Regulator Stabilizer Buck
Boost Automatic Stepup Stepdown Power Supply Transformer
Part Number: ET528227798158A1



Product Name	DC 12V to DC 12V Converter
Brand	EZONEDE
Model	FW36D12A1
Input rated voltage	DC 12V
Input voltage range	DC 5-32V
Efficiency	95%
Output voltage	12V
Output current	1A MAX
Output rated power	12W
Output peak power	15W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-20℃~+60℃ (If ambient temperature exceeds 40℃ , lower power use, or to enhance heat dissipation)
Module Properties	non-isolated buck module(buck)
Rectification	synchronous rectification
Waterproof rating	IP68
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature,Short-circuit protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	102g
Product size	66*60*22mm
Attention:	
Please install according to the the label strictly,positive pole and nagative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.	

DC 12V to DC 12V Converter 5-32VDC to 12VDC 2A 24W Voltage Regulator Stabilizer Buck
Boost Automatic Stepup Stepdown Power Supply Transformer
Part Number: ET528227798158A2



Product Name	DC 12V to DC 12V Converter
Brand	EZONEDE
Model	FW36D12A2
Input rated voltage	DC 12V
Input voltage range	DC 5-32V
Efficiency	95%
Output voltage	12V
Output current	2A MAX
Output rated power	24W
Output peak power	30W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-20℃~+60℃ (If ambient temperature exceeds 40℃ , lower power use, or to enhance heat dissipation)
Module Properties	non-isolated buck module(buck)
Rectification	synchronous rectification
Waterproof rating	IP68
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature,Short-circuit protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	102g
Product size	66*60*22mm
Attention:	
Please install according to the the label strictly,positive pole and nagative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.	

DC 12V to DC 12V 3A 36W Converter 5-32VDC to 12VDC Voltage Regulator Stabilizer Buck
Boost Automatic Stepup Stepdown Power Supply Transformer
Part Number: ET528227798158A3



Product Name	DC 12V to DC 12V Converter
Brand	EZONEDE
Model	FW36D12A3
Input rated voltage	DC 12V
Input voltage range	DC 5-32V
Efficiency	95%
Output voltage	12V
Output current	3A MAX
Output rated power	36W
Output peak power	43W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-20℃~+60℃ (If ambient temperature exceeds 40℃ , lower power use, or to enhance heat dissipation)
Module Properties	non-isolated buck module(buck)
Rectification	synchronous rectification
Waterproof rating	IP68
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature,Short-circuit protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	102g
Product size	66*60*22mm
Attention:	
Please install according to the the label strictly,positive pole and negative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.	

DC 12V 24V to DC 12V 1A 12W Voltage Regulator 5-32VDC to 12VDC Volt Stabilizer Buck
Boost Automatic Step up / Step down Power Supply Converter for Solar Power
Part Number: ET530279130438A1



Product Name	DC 12V 24V to DC 12V 1A 12W Voltage Regulator
Brand	EZONEDE
Model	FW32D12S1
Input rated voltage	12V 24V DC
Input voltage range	5-32V DC
Efficiency	95%
Output voltage	12V DC
Output current	1A MAX
Output rated power	12W
Output peak power	15W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Module Properties	non-isolated module
Rectification	synchronous rectification
Waterproof rating	IP68
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature, Instant absorption of high voltage protection waterproof IP68 design, anti-shock protection
Short-circuit protection	NO, if need please add fuse on the positive pole on input
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	65g
Product size	46*32*18mm
Attention:	
Please install according to the the label strictly,positive pole and nagative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.	

DC 12V 24V to DC 12V 2A 24W Voltage Regulator 5-32VDC to 12VDC Volt Stabilizer Buck
Boost Automatic Step up / Step down Power Supply Converter for Solar Power
Part Number: ET530279130438A2



Product Name	DC 12V 24V to DC 12V 2A 24W Voltage Regulator
Brand	EZONED E
Model	FW32D12S2
Input rated voltage	12V 24V DC
Input voltage range	5-32V DC
Efficiency	95%
Output voltage	12V DC
Output current	2A MAX
Output rated power	24W
Output peak power	30W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Module Properties	non-isolated module
Rectification	synchronous rectification
Waterproof rating	IP68
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature, Instant absorption of high voltage protection waterproof IP68 design, anti-shock protection
Short-circuit protection	NO, if need please add fuse on the positive pole on input
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	65g
Product size	46*32*18mm
Attention:	
Please install according to the the label strictly,positive pole and nagative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.	

DC 12V 24V to DC 12V 3A 36W Voltage Regulator 5-32VDC to 12VDC Volt Stabilizer Buck
Boost Automatic Step up / Step down Power Supply Converter for Solar Power
Part Number: ET530279130438A3



Product Name	DC 12V 24V to DC 12V 3A 36W Voltage Regulator
Brand	EZONED E
Model	FW32D12S3
Input rated voltage	12V 24V DC
Input voltage range	5-32V DC
Efficiency	95%
Output voltage	12V DC
Output current	3A MAX
Output rated power	36W
Output peak power	43W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃ , lower power use, or to enhance heat dissipation)
Module Properties	non-isolated module
Rectification	synchronous rectification
Waterproof rating	IP68
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature, Instant absorption of high voltage protection waterproof IP68 design, anti-shock protection
Short-circuit protection	NO, if need please add fuse on the positive pole on input
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	65g
Product size	46*32*18mm
Attention:	
Please install according to the the label strictly,positive pole and nagative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.	

12VDC to 12VDC 3A 36W Voltage Regulator Stabilizer 10-40V to 12V DC-DC Buck Boost
Automatic Stepup Stepdown Power Supply Transformer
Part Number: ET520401984907



Product Name	12VDC to 12VDC 3A 36W Voltage Regulator
Brand	EZONEDE
Model	10401203L
Input rated voltage	DC 12V/24V/36V
Input voltage range	DC 10-40V
Efficiency	95%
Output voltage	12V
Output current	3A MAX
Output rated power	36W
Output peak power	43W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use or to enhance heat dissipation)
Module Properties	non-isolate module
Rectification	synchronous rectification
Waterproof rating	IP68
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature, Short-circuit protection, Instant absorption of high voltage protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	290g
Product size	74*74*32mm
Attention:	
Please install according to the the label strictly,positive pole and negative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power pls make sure the voltage and power input is enough.	

DC 12V to DC 12V 4A 48W Voltage Regulator Stabilizer 6-20V to 12V Automatic Stepup
Stepdown Buck Boost Transformer Power Supply Converter
Part Number: ET41742761286A4



Product Name	12V to 12V 4A 48W DC Converter
Brand	EZONEDE
Model No.	06201204L
Module Properties	non-isolated buck module
Rectification	synchronous rectification
Input(cable length: 12cm)	
Input Voltage	DC 12V
Input Voltage Range	DC 6-20V
Output(cable length: 12cm)	
Output Voltage	DC 12V
Output Current	4A
Output Power	48W
Conversion Efficiency	95%
Voltage regulation	± 1%
Load regulation	± 2%
Ripple (Full load test)	< 150mV
No-load current	<100mA
Working Temperature	-40℃~+80℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Waterproof Rating	IP68
Protection	Over-current protection
	Overheating protectionshort circuit protection
	Instant absorption of high voltage protection waterproof IP68 design, anti-shock protection
Application	mobile phone, car camera, Electric motors, Trucks, Golf Carts ,Forklifts,Solar Panel Power System,water pumps, industrial equipment and so on.
Case Material	Die-casting aluminum alloy
Product Size (L x W x H)	74*74*32mm
Product Weight	290g
Warranty	12 months
Cooling Way	Free air convection
OEM Service	Acceptable

DC 12V (10-36V) to 12V 5A 60W Voltage Regulator Stabilizer DC-DC Buck Boost Automatic
Stepup Stepdown Power Supply Transformer
Part Number: ET520359793597



Product Name	12V to 12V 5A 60W DC Converter
Brand	EZONEDE
Model No.	10361205L
Module Properties	non-isolated buck module
Rectification	synchronous rectification
Input(cable length: 12cm)	
Input Voltage	DC 12V
Input Voltage Range	DC 10-36V
Output(cable length: 12cm)	
Output Voltage	DC 12V
Output Current	5A
Output Power	60W
Conversion Efficiency	95%
Voltage regulation	± 1%
Load regulation	± 2%
Ripple (Full load test)	< 150mV
No-load current	<100mA
Working Temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Waterproof Rating	IP68
Protection	Over-current protection
	Overheating protectionshort circuit protection
	Instant absorption of high voltage protection waterproof IP68 design, anti-shock protection
Application	mobile phone, car camera, Electric motors, Trucks, Golf Carts ,Forklifts,Solar Panel Power System,water pumps, industrial equipment and so on.
Case Material	Die-casting aluminum alloy
Product Size (L x W x H)	74*74*32mm
Product Weight	290g
Warranty	12 months
Cooling Way	Free air convection
OEM&ODM Service	Acceptable

24VDC to 24VDC 10A 240W Voltage Regulator Stabilizer 18-36V to 24V DC-DC Buck Boost
Automatic Stepup Stepdown Power Supply Transformer
Part Number: ET525118647697



Product Name	24V to 24V 10A 240W DC Converter
Brand	EZONEDE
Model No.	18362410L
Module Properties	non-isolated buck module
Rectification	synchronous rectification
Input(cable length: 12cm)	
Input Voltage	DC 24V
Input Voltage Range	DC 18-36V
Output(cable length: 12cm)	
Output Voltage	DC 24V
Output Current	10A
Output Power	240W
Conversion Efficiency	95%
Voltage regulation	± 1%
Load regulation	± 2%
Ripple (Full load test)	< 150mV
No-load current	<100mA
Working Temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Waterproof Rating	IP68
Protection	Over-current protection
	Overheating protectionshort circuit protection
	Instant absorption of high voltage protection waterproof IP68 design, anti-shock protection
Application	mobile phone, car camera, Electric motors, Trucks, Golf Carts ,Forklifts,Solar Panel Power System,water pumps, industrial equipment and so on.
Case Material	Die-casting aluminum alloy
Product Size (L x W x H)	74*74*32mm
Product Weight	290g
Warranty	12 months
Cooling Way	Free air convection
OEM & ODM Service	Acceptable

DC 12V to DC 12V 12A 144W Voltage Regulator Stabilizer 6-20V to 12V Automatic Stepup
Stepdown Buck Boost Transformer Power Supply Converter
Part Number: ET41742761286A12



Product Name	12V to 12V 12A 144W DC Converter
Brand	EZONEDE
Model No.	06201212L
Module Properties	non-isolated buck module
Rectification	synchronous rectification
Input(cable length: 12cm)	
Input Voltage	DC 12V
Input Voltage Range	DC 6-20V
Output(cable length: 12cm)	
Output Voltage	DC 12V
Output Current	12A
Output Power	144W
Conversion Efficiency	95%
Voltage regulation	$\pm 1\%$
Load regulation	$\pm 2\%$
Ripple (Full load test)	< 150mV
No-load current	<100mA
Working Temperature	-40℃~+80℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Waterproof Rating	IP68
Protection	Over-current protection
	Overheating protectionshort circuit protection
	Instant absorption of high voltage protection waterproof IP68 design, anti-shock protection
Application	mobile phone, car camera, Electric motors, Trucks, Golf Carts ,Forklifts,Solar Panel Power System,water pumps, industrial equipment and so on.
Case Material	Die-casting aluminum alloy
Product Size (L x W x H)	74*74*32mm
Product Weight	290g
Warranty	12 months
Cooling Way	Free air convection
OEM Service	Acceptable

Part 2:

The following is:

13.8V DC Voltage Regulator

DC 12V 24V to DC 13.8V 5A 69W Voltage Regulator 8-40VDC to 13.8VDC Volt Stabilizer Buck
Boost Automatic Step up / Step down Power Supply Converter
Part Number: ET523171955483A5



Product Name	8-40V (9V/12V/24V/36V) to 13.8V 5A DC-DC Buck/Boost Converters
Brand	EZONEDE
Model No.	RC8-40S13R805
Module Properties	non-isolated boost buck module
Rectification	synchronous rectification
Input	
Input Voltage	DC 8-40V
Output	
Output Voltage	DC 13.8V
Output Current	5A
Output Power	69W
Conversion Efficiency	90%
Voltage regulation	± 1%
Load regulation	± 2%
Ripple (Full load test)	< 150mV
No-load current	25mA
Working Temperature	-35℃~+80℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Waterproof Rating	IP68
Protection	Over-current protection
	Over-voltage protection
	Overheat protection
	Short-circuit protection
Input/Output	please follow label instructions wiring strictly
Application	Electric motors, fans, Audio, Trucks, Golf Carts ,ForkliftsGPS Navigation, Monitoring, Air conditioningLED car display, DVD, LED bulb lightsWind Power System, Solar Panel Power SystemElectrical appliances, water pumps, industrial equipment, telecommunications and so on.
Case Material	Aluminum, anti-shock, anti-drop, anti-moisture, anti-dust and so on
Product Size (L x W x H)	74*74*32mm (packing size:98*82*34cm)
Product Weight	290g
Warranty	12 months, lifetime up to 100,000 hours
Cooling Way	Free air convection
OEM&ODM Service	Accept

DC 12V 24V to DC 13.8V 8A 110W Voltage Regulator 8-40VDC to 13.8VDC Volt Stabilizer Buck
Boost Automatic Step up / Step down Power Supply Converter
Part Number: ET523171955483A8



Product Name	8-40V (9V/12V/24V/36V) to 13.8V 8A DC-DC Buck/Boost Converters
Brand	EZONEDE
Model No.	RC8-40S13R808
Module Properties	non-isolated boost buck module
Rectification	synchronous rectification
Input	
Input Voltage	DC 8-40V
Output	
Output Voltage	DC 13.8V
Output Current	8A
Output Power	110.4W
Conversion Efficiency	90%
Voltage regulation	± 1%
Load regulation	± 2%
Ripple (Full load test)	< 150mV
No-load current	25mA
Working Temperature	-35℃~+80℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Waterproof Rating	IP68
Protection	Over-current protection
	Over-voltage protection
	Overheat protection
	Short-circuit protection
Input/Output Reverse Polarity Protection	please follow label instructions wiring strictly
Application	Electric motors, fans, Audio, Trucks, Golf Carts ,ForkliftsGPS Navigation, Monitoring, Air conditioningLED car display, DVD, LED bulb lightsWind Power System, Solar Panel Power SystemElectrical appliances, water pumps, industrial equipment, telecommunications and so on.
Case Material	Aluminum, anti-shock, anti-drop, anti-moisture, anti-dust and so on
Product Size (L x W x H)	74*74*32mm(packing size: 98*82*34cm)
Product Weight	290g
Warranty	12 months, lifetime up to 100,000 hours
Cooling Way	Free air convection
OEM&ODM Service	Accept

DC 12V 24V to DC 13.8V 10A 138W Voltage Regulator 8-40VDC to 13.8VDC Volt Stabilizer
Buck Boost Automatic Step up / Step down Power Supply Converter
Part Number: ET523171955483A10



Product Name	8-40V (9V/12V/24V/36V) to 13.8V 10A DC-DC Buck/Boost Converters
Brand	EZONEDE
Model No.	RC8-40S13R810
Module Properties	non-isolated boost buck module
Rectification	synchronous rectification
Input	
Input Voltage	DC 8-40V
Output	
Output Voltage	DC 13.8V
Output Current	10A
Output Power	138W
Conversion Efficiency	90%
Voltage regulation	± 1%
Load regulation	± 2%
Ripple (Full load test)	< 150mV
No-load current	25mA
Working Temperature	-35℃~+80℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Waterproof Rating	IP68
Protection	Over-current protection
	Over-voltage protection
	Overheat protection
	Short-circuit protection
Input/Output Reverse Polarity Protection	No, please follow label instructions wiring strictly
Application	Electric motors, fans, Audio, Trucks, Golf Carts ,ForkliftsGPS Navigation, Monitoring, Air conditioningLED car display, DVD, LED bulb lightsWind Power System, Solar Panel Power SystemElectrical appliances, water pumps, industrial equipment, telecommunications and so on.
Case Material	Aluminum, anti-shock, anti-drop, anti-moisture, anti-dust and so on
Product Size (L x W x H)	74*74*32mm(packing size:98*82*34cm)
Product Weight	280g
Warranty	12 months, lifetime up to 100,000 hours
Cooling Way	Free air convection
OEM&ODM Service	Accept

Part 3:

The following is:

19V DC Voltage Regulator

12V 24V (9V-32V) to 19V 5A 95W Buck/Boost Converter Stepup/Stepdown Automatic
Booster/Reducer Voltage Stabilizer Regulator
Part Number: ET562829890603



Product Name	12V 24V DC to 19V Buck Boost Converter
Brand	EZONEDE
Model No.	RC9-32S1905
Module Properties	non-isolated boost buck module
Rectification	synchronous rectification
Input	
Input Voltage	DC 9-32V
Output	
Output Voltage	DC 19V
Output Current	5A
Output Power	95W
Conversion Efficiency	90%
Voltage regulation	± 1%
Load regulation	± 2%
Ripple (Full load test)	< 150mV
No-load current	25mA
Working Temperature	-35℃~+80℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Waterproof Rating	IP68
Protection	Over-current protection
	Over-voltage protection
	Overheat protection
	Short-circuit protection
Input/Output Reverse Polarity Protection	No, please follow label instructions wiring strictly
Application	Electric motors, fans, Audio, Trucks, Golf Carts ,ForkliftsGPS Navigation, Monitoring, Air conditioningLED car display, DVD, LED bulb lightsWind Power System, Solar Panel Power SystemElectrical appliances, water pumps, industrial equipment, telecommunications and so on.
Case Material	Aluminum, anti-shock, anti-drop, anti-moisture, anti-dust and so on
Product Size (L x W x H)	74*74*32mm
Product Weight	290g
Warranty	12 months, lifetime up to 100,000 hours
Cooling Way	Free air convection
OEM&ODM Service	Accept

Part 4:

The following is:

24V DC Voltage Regulator

DC 12V 24V to DC 24V 1A 24W Buck/Boost Converter Stepup/Stepdown Automatic
Booster/Reducer Voltage Stabilizer Regulator for Car Truck Vehicle Automobile
Part Number: ET42219654566



Product name	DC 12V 24V to DC 24V 1A 24W Buck/Boost Converter
Brand	EZONEDE
Model	8402401
Input rated voltage	DC 12V/24V
Input voltage range	DC 8-40V
Efficiency	95%
Output voltage	24V
Output current	1A MAX
Output rated power	24W
Output peak power	28W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Module Properties	non-isolate module
Rectification	synchronous rectification
Waterproof rating	IP68
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature, Instant absorption of high voltage protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	100g
Product size	58*40*22mm
Attention:	
Please install according to the the label strictly,positive pole and nagative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.	

DC 12V/24V to 24V 3A 72W Voltage Regulator 10-32VDC to 24VDC Volt Stabilizer Buck Boost
Auto Step up/Step down Converter
Part Number: ET520397227946



Product name	12V/24V to 24V 3A 72W DC Voltage Regulator
Brand	EZONEDE
Model	103322403L
Input rated voltage	DC 12V/24V
Input voltage range	DC 10-32V
Efficiency	95%
Output voltage	24V
Output current	3A MAX
Output rated power	72W
Output peak power	85W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Module Properties	non-isolate module
Rectification	synchronous rectification
Waterproof rating	IP67
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature,Short-circuit protection, Instant absorption of high voltage protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	290g
Product size	74*74*32mm
Attention:	
	Please install according to the the label strictly,positive pole and negative pole can't be reversed, or the module and device might be damaged
	To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.

DC 24V 36V to 24V 5A 120W Voltage Regulator 20-36VDC to 24VDC Volt Stabilizer Buck Boost
Auto Step up/Step down Converter
Part Number: ET522018985687



Product name	DC 24V 36V to 24V 5A 120W Voltage Regulator
Brand	EZONEDE
Model	20362405L
Input rated voltage	DC 24V 36V
Input voltage range	DC 20-36V
Efficiency	95%
Output voltage	24V
Output current	5A MAX
Output rated power	120W
Output peak power	144W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Module Properties	non-isolate module
Rectification	synchronous rectification
Waterproof rating	IP67
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature,Short-circuit protection, Instant absorption of high voltage protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	290g
Product size	74*74*32mm
Attention:	
	Please install according to the the label strictly,positive pole and negative pole can't be reversed, or the module and device might be damaged
	To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.

DC 24V 36V to 24V 8A 192W Voltage Regulator 10-36VDC to 24VDC Volt Stabilizer Buck Boost
Auto Step up/Step down Converter
Part Number: ET525115323754A8



Product name	DC 24V 36V to 24V 8A 192W Voltage Regulator
Brand	EZONEDE
Model	10362408L
Input rated voltage	DC 24V 36V
Input voltage range	DC 10-36V
Efficiency	95%
Output voltage	24V
Output current	8A MAX
Output rated power	196W
Output peak power	230W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Module Properties	non-isolate module
Rectification	synchronous rectification
Waterproof rating	IP67
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature,Short-circuit protection, Instant absorption of high voltage protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	290g
Product size	74*74*32mm
Attention:	
	Please install according to the the label strictly,positive pole and negative pole can't be reversed, or the module and device might be damaged
	To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.

DC 24V 36V to 24V 10A 240W Voltage Regulator 10-36VDC to 24VDC Volt Stabilizer Buck
Boost Auto Step up/Step down Converter
Part Number: ET525115323754A10



Product name	DC 24V 36V to 24V 10A 240W Voltage Regulator
Brand	EZONEDE
Model	10362410L
Input rated voltage	DC 24V 36V
Input voltage range	DC 10-36V
Efficiency	95%
Output voltage	24V
Output current	10A MAX
Output rated power	240W
Voltage regulation	< 1%
Load regulation	< 2%
Working temperature	-40℃~+85℃ (If ambient temperature exceeds 40℃, lower power use, or to enhance heat dissipation)
Module Properties	non-isolate module
Rectification	synchronous rectification
Waterproof rating	IP67
Full load temperature rise:	50℃
Protection	Over-current, Over-temperature,Short-circuit protection, Instant absorption of high voltage protection
Input Reverse Polarity Protection	None (Please Series diode at the input port.)
NW	290g
Product size	74*74*32mm
Attention:	
Please install according to the the label strictly,positive pole and nagative pole can't be reversed, or the module and device might be damaged	
To assure this converter has the sufficient voltage and power please make sure the voltage and power input is enough.	