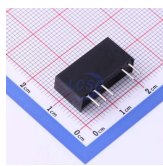
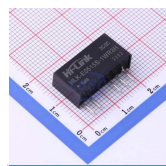
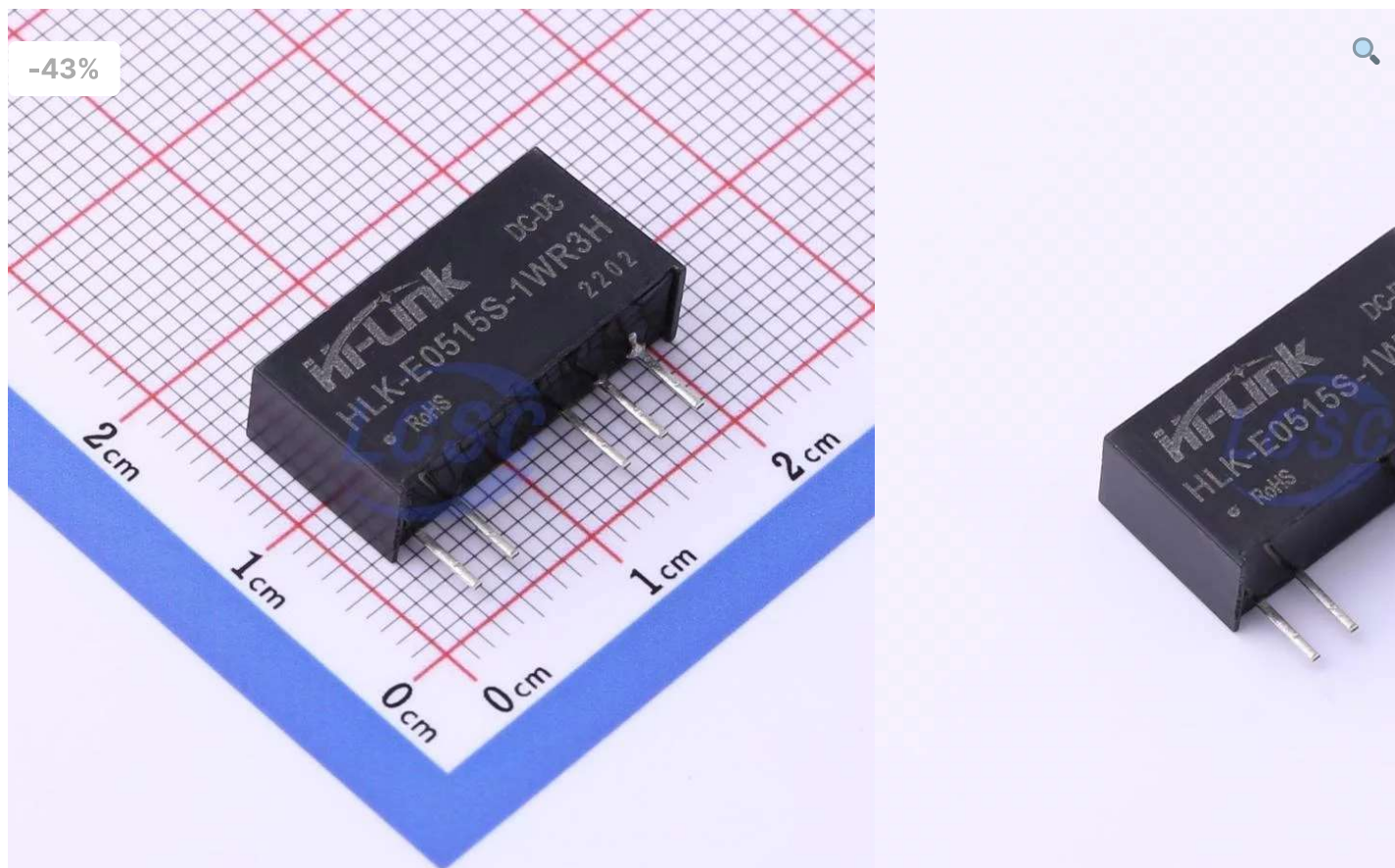




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DC DC 1W, DC DC Power Module, Hi Link Power Supply Modules

E0515S-1WR3H

Availability: **90 in stock**

 Add To Cart

₹229.00

₹400.00

With GST

1

Description

Reviews

HLK-E0515S-1WR3H DC-DC Power Module

Typical performance

HLK-E0515S-1WR3H DC-DC Power Module has output of 1W, constant voltage input, isolated and unregulated dual output DC/DC module power supply

Over temperature protection and output continuous short circuit protection RoHS

- Features: constant voltage input, isolated unregulated output 1W
- Isolated voltage: 3000VDC
- Efficiency: up to 89%
- HLK-E0515S-1WR3H DC-DC Power Module has a working environment temperature: -40°C~+85°C
- Failure-free time MTBF≥3.5 million hours (3500000Hrs)
- Output short circuit protection: continuous short circuit protection, automatic recovery
- HLK-E0515S-1WR3H DC-DC Power Module has a small SIP package, black flame retardant and heat resistant plastic housing
- International standard pin method
- Ripple/Noise (20MHz bandwidth): 45mVp-p (Typ.)
- HLK-E0515S-1WR3H DC-DC Power Module is specially designed for applications in distributed power systems that need to generate two power sources that are isolated from the input power supply. This product is suitable for:
- The voltage of the input power supply is relatively stable (voltage variation range ±10%Vin);
- Isolation is required between input and output (isolation voltage≤3000VDC);
- Occasions that do not require high output voltage stability and output ripple noise.

Product selection table

Certificate	Product model①	Input voltage range(Vdc)	Output voltage/current		Ripple and noise	Efficiency @ full load	M
		Nominal value②	Output voltage (Vdc)	Output current (mA)	Full load (mVp-p) Typ./Max.	% (Min./Typ.)	u

		(range value)	(Max.Min.)				
	E0303S-1WR3	3.3 (2.97~3.63)	±3.3	±152/±15	45/100	78/81	12
	E0305S-1WR3		±5	±100/±10	45/100	79/82	12
	E0309S-1WR3		±9	±56/±6	45/100	81/84	4
	E0312S-1WR3		±12	±42/±5	45/100	82/85	2
	E0315S-1WR3		±15	±34/±4	45/100	82/85	2
	E0324S-1WR3		±24	±21/±3	45/100	84/88	10
	E0503S-1WR3	5 (4.5-5.5)	±3.3	±152/±15	45/100	81/84	12
	E0505S-1WR3		±5	±100/±10	45/100	84/86	12
	E0509S-1WR3		±9	±56/±6	45/100	85/88	4
	E0512S-1WR3		±12	±42/±5	45/100	85/88	2
	HLK-E0515S-1WR3H DC-DC Power Module		±15	±34/±4	45/100	85/88	2
	E0524S-1WR3		±24	±21/±3	45/100	86/89	10
	E1203S-1WR3	12 (10.8~13.2)	±3.3	±152/±15	45/100	81/84	2
	E1205S-1WR3		±5	±100/±10	45/100	82/86	2
	E1209S-1WR3		±9	±56/±6	45/100	84/87	10

E1212S-1WR3		±12	±42/±5	45/100	84/87	50
E1215S-1WR3		±15	±34/±4	45/100	86/88	50
E1224S-1WR3		±24	±21/±3	45/100	88/90	20
E1503S-1WR3	15 (13.5~16.5)	±3.3	±152/±15	45/100	81/84	20
E1505S-1WR3		±5	±100/±10	45/100	82/86	20
E1509S-1WR3		±9	±56/±6	45/100	84/87	10
E1512S-1WR3		±12	±42/±5	45/100	88/90	50
E1515S-1WR3		±15	±34/±4	45/100	88/90	50
E1524S-1WR3		±24	±21/±3	45/100	88/90	20
E2403S-1WR3	24 (21.6~26.4)	±3.3	±152/±15	45/100	81/84	20
E2405S-1WR3		±5	±100/±10	45/100	82/87	20
E2409S-1WR3		±9	±56/±6	45/100	84/88	10
E2412S-1WR3		±12	±42/±5	45/100	88/91	50
E2415S-1WR3		±15	±34/±4	45/100	88/91	50
E2424S-1WR3		±24	±21/±3	45/100	88/91	20

Note: 1. Due to limited space, the above is just a list of typical products. If you need products other than the list, please contact the sales department of our company.

2. The maximum capacitive load indicates the maximum capacitive load that can be connected to +V. If it exceeds this value, the product will not be able to start normally.

Input characteristics of HLK-E0515S-1WR3H DC-DC Power Module

Project	Working conditions	Min.	Typ.	Max.	Unit
Input current (full load/no load)	3.3VDCinput series	—	370/3	-/15	mA
	5VDCinput series	—	235/3	-/15	
	12VDCinput series	—	99/3	-/15	
	15VDCinput series	—	99/3	-/15	
	24VDCinput series	—	51/3	-/15	
Reflected Ripple Current		—	15	—	mA
Impulsevoltage (Isec.max)	3.3VDCinput series	-0.7	—	5	VDC
	5VDCinput series	-0.7	—	9	
	12VDCinput series	-0.7	—	18	
	15VDCinput series	-0.7	—	21	
	24VDCinput series	-0.7	—	30	
Input filter type	Capacitive filtering				
Hot plug	No support				

Output characteristics HLK-E0515S-1WR3H DC-DC Power Module

Project	Working and testing conditions		Min.	Typ.	Max.	Unit
Output load	Load percentage		10	—	100	%
Output voltage accuracy	See error envelope curve		—	—	±15.0	%
Linear adjustment rate	Input voltage variation ±1%	3.3V output	—	—	±1.5	%
		Others	—	—	±1.2	%

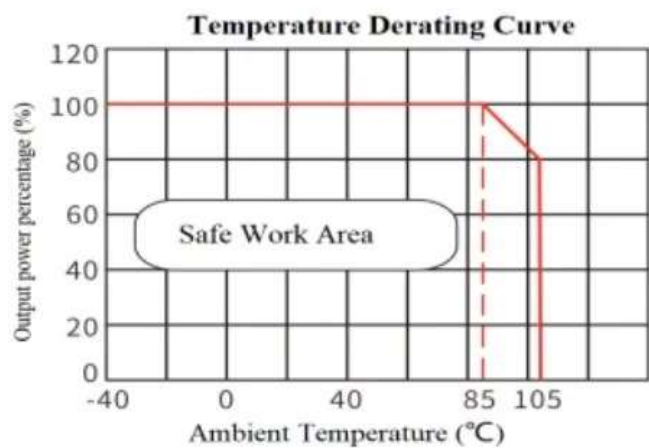
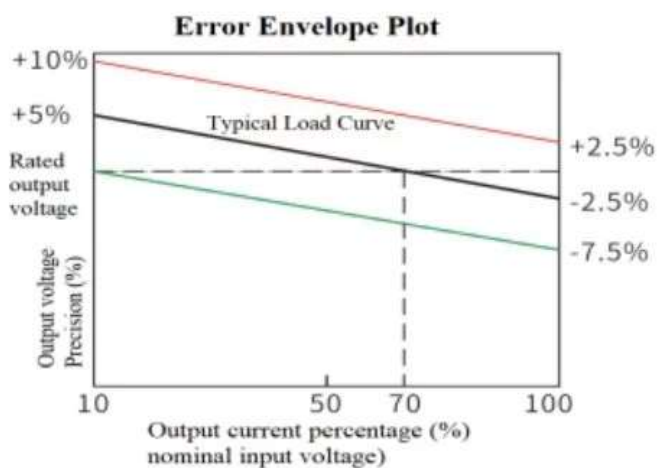
Load regulation	10%~100% load	3.3VDC output	—	10	—	%
		5VDC output	—	8	—	%
		9VDC output	—	8	—	%
		12VDC output	—	7	—	%
		15VDC output	—	6	—	%
		24VDC output	—	6	—	%
Ripple and noise	Pure resistive load, 20MHz bandwidth, peak-to-peak	—	45	100	mVp-p	
Temperature drift coefficient	Full load	—	—	±0.03	%/°C	
Output short circuit protection	Continuous short circuit protection, automatic recovery					
Note: ①The test method of ripple and noise is twisted pair test method.						

General characteristics HLK-E0515S-1WR3H DC-DC Power Module

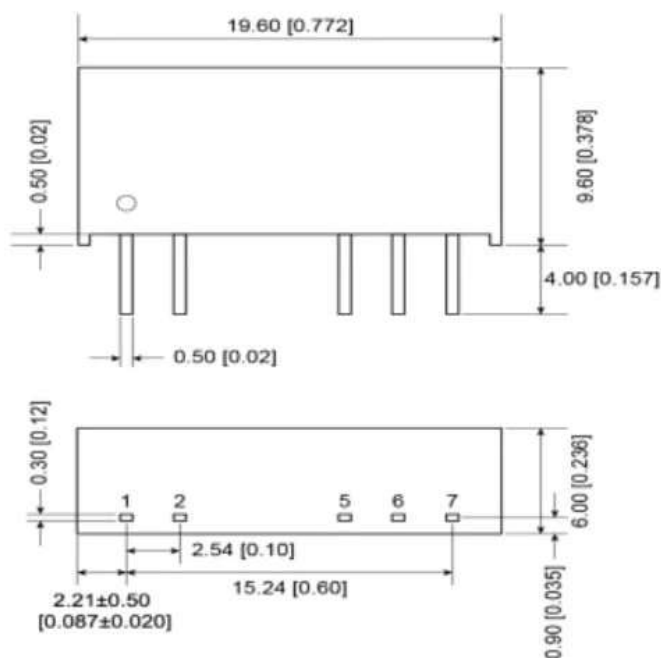
Project	Working conditions	Min.	Typ.	Max.	Unit
Insulation voltage	Input-Output, test time a minute,leakage current is less than 1mA	3000	—	—	VDC
Insulation resistance	Input-Output, insulation voltage500VDC	1000	—	—	MΩ
Isolatedcapacitor	Input-Output, 100KHz/0.1V	—	20	—	pF
Working temperature	Using the reference temperature derating curve	-40	—	+85	°C
Storage temperature		-40	—	+125	
Shell temperature rise during operation		—	25	—	

Storage humidity	no condensation	5	—	95	%RH
Pin Soldering Temperature	The solder joint is 1.5mm away from the shell, 10s	—	—	+300	°C
On-off level	Full load, nominal voltage input	—	100	—	KHz
Shock		10-55Hz, 10G, 30Min.alongX, YandZ			
Shell material		Black flame-retardant heat-resistant plastic (UL94V-0)			
Minimum time between failures	MIL-HDFK-217F@25°C	3.5X106	—	—	Hrs

6. Product characteristic curve



7. Product appearance size and pin definition, recommended printing layout



Note:

Size unit: mm[inch]

Terminal diameter tolerance: ±0.10 [±0.004]

Unmarked tolerance: ±0.50 [±0.020]

Pin	Function (single channel)	Function (dual)
1	Vin	Vin
2	GND	GND
5	-Vo	-Vo
6	NO PIN	COM
7	+Vo	+Vo

CN: cannot be connected to any external circuit

Package Contains :

1 x HLK-E0515S-1WR3H DC-DC Power Module

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