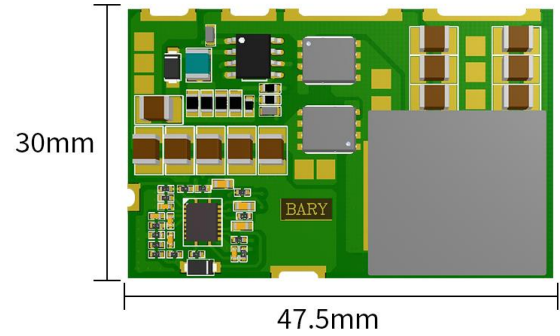


Product characteristics

- ◇ Synchronous Step Down
- ◇ Package outline: SOC
- ◇ Temperature range: -40°C至+85°C
- ◇ Max Efficiency: 95%
- ◇ Input range: 6 - 70VDC
- ◇ application area: industry、Instrumentation、RF communication、track、traffic、Smart Street Lamp、Smart Home、Intelligent switch、Smart Home.



Selection Guide

Product model	Input Voltage (VDC)	Output			Temperature range (°C)	Max capacitive load (μF)
	Nominal value (Range value)	Power (W)	Voltage (VDC)	current (A) Max./Min		
DM21-100W05S	24 (7 - 70)	100	5	20	-40°C to +85°C	10000

Input Specifications

Item	Operating Conditions		Min.	Typ.	Max.	Unit
Input current	DM21-100W05S	24V(VIN) 5V(Output)	--	4.375	--	A
Ripple & Noise	DM21-100W05S		20	--	100	mV
starting voltage	DM21-100W05S		6.5	--	7	VDC
Input low voltage			Not.			

protection			
Input filter Typ		C	
Recommended External Input Fuse		25A/30V, slow-blow, required	

Output Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Output Voltage Accuracy	0%-100% load	--	±1	±3	%
Line Regulation	Full load	--	±0.3	±0.5	
Load Regulation	5%~100% Load(balanced load)	--	±1	±2	
Ripple & Noise	20MHz bandwidth (peak-to-peak value)	20	--	100	mVp-p
Temperature Coefficient		--	±0.1	--	%/°C
Over voltage protection	DM21-100W05S	Not.			
Over current protection		20.5	22	24	A
Short circuit protection		Continuous, self-recovery			

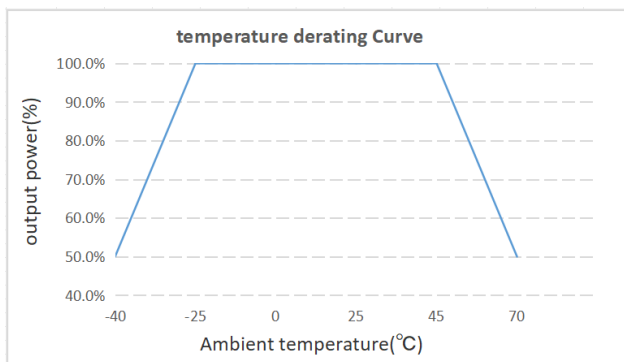
General Specifications

Item	Operating Conditions		Min.	Typ.	Max.
Switching Frequency	DM21-100W05S	--	200	--	KHz
operating Temperature		-40	25	+40	°C
storage Temperature		-40	25	+85	°C
storage Humidity		--	--	95	%RH

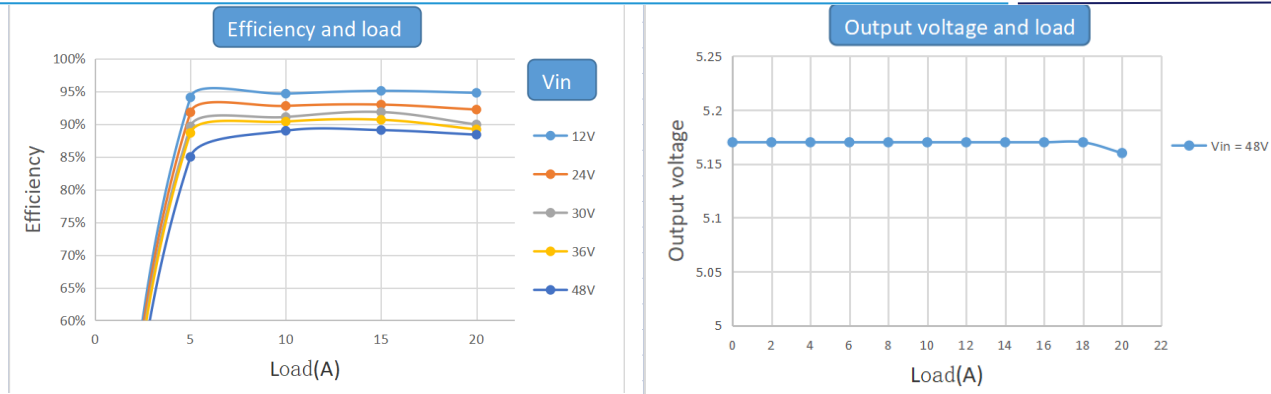
Mechanical Specifications

Size	47.5x30x8.8mm;
Weight	20g
Cooling method	Free air convection

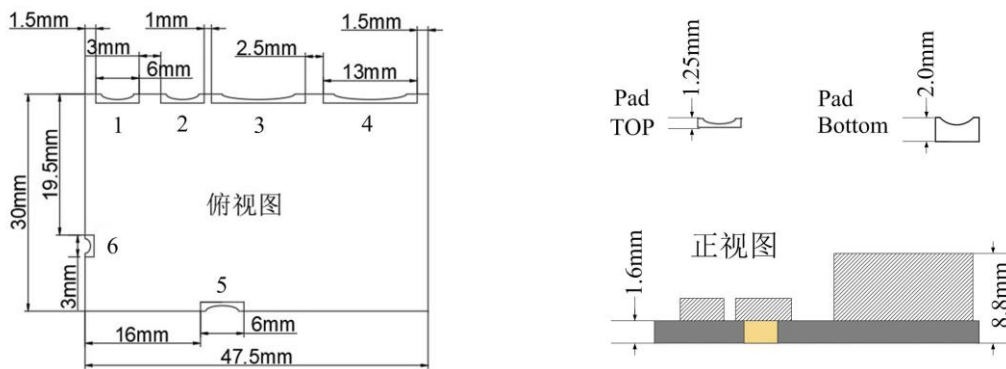
Product Characteristic Curve



Product Characteristic Curve



Dimensions and Recommended Layout

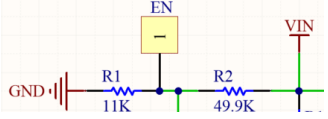


Note:

Pin diameter tolerances: ±0.1mm

General tolerances: ±0.5mm

Order name	Name	Orientation	Use
1	Vin+	input	The maximum input of power supply is 7V, over 70V will damage module permanently.
2	Vin -	input	Earth wire, link to power reference ground.
3	Vo -	output	Earth wire, output port power reference ground.
4	Vo +	output	Output power supply positive.
5	NC	--	Not connected to a circuit
6	EN	input	Output voltage enabling pin, high level enable, Low Levelisable;

			<p>High = 1.2V~3.6V, Low = <0.4V;</p> <p>Floating = enabling Output;</p> <p>This pin is internally pulled up to the VIN;</p>	
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More product recommendations

Product model	input voltag (VDC)	Output voltage	Output current	efficiency	Installation mode
DM21-25W050S	8.0 ~ 36Vdc	5Vdc	5A	93%	SOC
CK1408	6.0 ~ 18Vdc	5Vdc	8A	96%	SOC
DM21-100W05S	7.0 ~ 70Vdc	5Vdc	20A	95%	SOC
DM21-100W12S	22 ~ 56Vdc	12Vdc	8.33A	96.5%	SOC
DM21-100W24S	32 ~ 60Vdc	24Vdc	4.17A	97%	SOC

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