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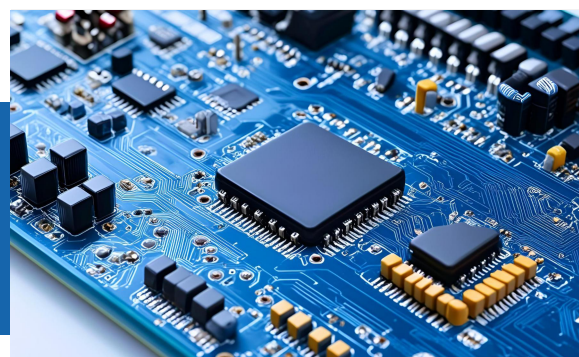
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Military Power Supply Selection Guide

AMCHARD

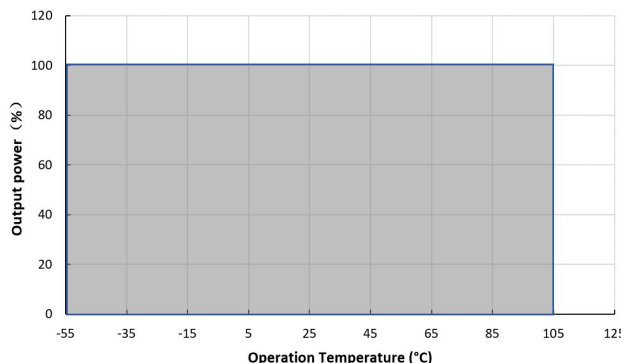
Core technology advantage system



Automotive-grade



Aligned with MIL-PRF-38534



Operating temperature:-55~105°C

AMCHARD-POWER collaborates with internationally accredited laboratories, integrating cutting-edge power supply technologies. Through rigorous testing across 32 major categories for efficient and high-quality verification, supported by comprehensive application scenario reliability validation, we have established ourselves as the preferred power solution provider for specialized fields.



Quality Control



Testing Equipment



Major test categories

Environmental Reliability | Safety Compliance | Electrochemical Testing | Electromagnetic Compatibility
Failure Analysis | Semiconductor Reliability

Routine Self-Test Items	Laboratory Test Items
Low Temperature Storage Test	Rain Test
Low Temperature Operating Test	Combustion Test
High Temperature Storage Test	Mechanical Shock
High Temperature Operating Test	Electrostatic Discharge (HBM, MM)
Aging Test	Wind Tunnel Test Chamber
Constant Damp Heat Test	Temperature-Humidity-Vibration Combined Test
Alternating Damp Heat Test	Drop Test
Simulated Transport Vibration Test	Simulated Mechanical Shock Test
Salt Spray Test	Sine Vibration Test
Temperature Cycling Test	Random Vibration Test
Thermal Shock Test	Low Pressure Test
Constant Damp Heat (Component Accelerated Test)	Low Temperature/Low Pressure Combined Test
Partial Discharge Test	High Temperature/Low Pressure Combined Test
Conducted Emission Test (CE)	Pressure Cooker Test (PCT)
Electrostatic Discharge Immunity Test (ESD)	Harmonic Current Test
Electrical Fast Transient Immunity Test (EFT)	
Surge Immunity Test (Surge)	

Catalog

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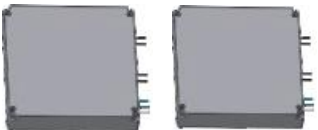
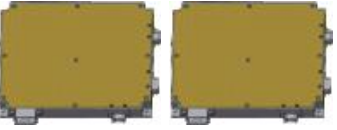
- Pre-packaging visual inspection
- Temperature cycl
- Shock or steady-state acceleration
- Burn-in Testing@100°C 96h

Custom Power Module

- Support for specialized customization
- Customized package、interface
- Special output voltage、multiple output combination
- EMC adapted to the scene,such as anti-irradiation
- High anti-irradiation

For military industrial customers to provide military industrial grade power supply, custom eye-catching accounted for 40%, not only more comprehensive, but also fast response delivery.

Typical Customization

Application Scenarios	Custom Component Series	Input voltage (V)	Output voltage (V)	Power (W)	Efficiency (%)	Model
Satellite Power		36-48	28	102	88	X42C28D06N102ZPT
Satellite Power		36-48	20	204	88	X42C20T05N204ZPT
Airborne Power		18-36	28	170	91	D28C28M170ZNT

11.6mm×6.0mm Isolated DC-DC

- Sip package: 11.60*6.00*10.16(mm)
- Fixed voltage input, single output
- Output power 1W
- Output short circuit protection
- Operating temperature range -55℃ to 105℃
- Isolation Voltage: 3000VDC
- High reliability, aligned with MIL-PRF-38534



Series	Input Voltage(V)	Output Voltage(V)	Maximum Output Current(mA)	Efficiency (%)	Operating Ambient Temperature (°C)	Storage Temperature (°C)	Model
Fixed Voltage Input 5V	4.75-5.25	3.3	303	70	-55~105	-55~125	D05S3R3M1P
		5	200	78	-55~105	-55~125	D05S05O1P
		9	111	79	-55~105	-55~125	D05S09M1P
		12	84	79	-55~105	-55~125	D05S12M1P
		15	67	79	-55~105	-55~125	D05S15M1P
		24	42	81	-55~105	-55~125	D05S24M1P
Fixed Voltage Input 12V	11.4-12.6	3.3	303	71	-55~105	-55~125	D12S3R3M1P
		5	200	76	-55~105	-55~125	D12S05M1P
		9	111	76	-55~105	-55~125	D12S09M1P
		12	83	76	-55~105	-55~125	D12S12M1P
		15	67	77	-55~105	-55~125	D12S15M1P
		24	42	77	-55~105	-55~125	D12S24M1P
Fixed Voltage Input 24V	22.8-25.2	3.3	303	69	-55~105	-55~125	D24S3R3M1P
		5	200	73	-55~105	-55~125	D24S05M1P
		9	111	74	-55~105	-55~125	D24S09M1P
		12	84	75	-55~105	-55~125	D24S12M1P
		15	67	75	-55~105	-55~125	D24S15M1P
		24	42	75	-55~105	-55~125	D24S24M1P

Standard 1/2 Brick Isolated DC-DC

- Standard 1/2 Brick Isolated DC-DC
- Different packaging forms such as through-hole, flange, threaded hole
- Wide input voltage range of 140V to 400V
- Protection:undervoltage,overvoltage,overcurrent,shortcircuit,overtemperature
- Isolation Voltage: 2250VDC
- Enable selectable positive logic or negative logic
- High reliability, aligned with MIL-PRF-38534



Series	Input Voltage(V)	Output Voltage(V)	Maximum Output Current(mA)	Efficiency (%)	Operating Ambient Temperature (°C)	Storage Temperature (°C)	Model
500W Output	140-400	3.3	90.9	91	-55~105	-55~125	D24E3R3M500HPH
		5	80	92	-55~105	-55~125	D24E05M500HPH
		12	42	92	-55~105	-55~125	D24E12M500HPH
		15	33.3	93	-55~105	-55~125	D24E15M500HPH
		28	18	93	-55~105	-55~125	D24E28M500HPH
		48	10.5	93	-55~105	-55~125	D24E48M500HPH

Standard 1/4 Brick Isolated DC-DC

- Standard 1/4 Brick Isolated DC-DC
- Different packaging forms such as through-hole, flange, threaded hole
- Wide input voltage range of 16V to 40V
- Protection:undervoltage,overvoltage,overcurrent,shortcircuit,overtemperature
- Enable selectable positive logic or negative logic
- Isolation Voltage: 1500VDC
- High reliability, aligned with MIL-PRF-38534



Series	Input Voltage(V)	Output Voltage(V)	Maximum Output Current(mA)	Efficiency (%)	Operating Ambient Temperature (°C)	Storage Temperature (°C)	Model
300W Output	16-40	5	60	92	-55~105	-55~125	D28C05M300QNH
		12	25	93	-55~105	-55~125	D28C12M300QNH
		15	20	93	-55~105	-55~125	D28C15M300QNH
		19	15.8	93	-55~105	-55~125	D28C19M300QNH
		24	12.5	93	-55~105	-55~125	D28C24M300QNH
		28	10.7	94	-55~105	-55~125	D28C28M300QNH

Standard 1/8 Brick Isolated DC-DC

- Standard 1/8 Brick Isolated DC-DC
- Different packaging forms such as through-hole, flange, threaded hole
- Wide input voltage range of 9V to 36V、16V to 40V
- Maximum power:200W
- Protection:undervoltage,overvoltage,overcurrent,shortcircuit,overtemperature
- Enable selectable positive logic or negative logic
- Isolation Voltage: 1500VDC
- High reliability, aligned with MIL-PRF-38534



Series	Input Voltage(V)	Output Voltage(V)	Maximum Output Current(mA)	Efficiency (%)	Operating Ambient Temperature (°C)	Storage Temperature (°C)	Model
100W Output	9-36	3.3	24.3	90	-55~105	-55~125	D24C3R3M80EN
		5	20	91	-55~105	-55~125	D24C05M100EN
		12	8.4	92	-55~105	-55~125	D24C12M100EN
		15	6.7	92	-55~105	-55~125	D24C15M100EN
		19	5.3	92	-55~105	-55~125	D24C19M100EN
		24	6.3	91	-55~105	-55~125	D24C24M150EN
		28	5.4	91	-55~105	-55~125	D24C28M150EN
200W Output	16-40	5	40	92	-55~105	-55~125	D28C05M200EN
		6	16.7	89	-55~105	-55~125	D28C06M100EN
		12	16.7	92	-55~105	-55~125	D28C12M200EN
		15	13.4	92	-55~105	-55~125	D28C15M200EN
		19	10.6	92	-55~105	-55~125	D28C19M200EN
		24	8.4	94	-55~105	-55~125	D28C24M200EN
		28	7.2	94	-55~105	-55~125	D28C28M200EN

Standard 1/16 Brick Isolated DC-DC

- Standard 1/16 Brick Isolated DC-DC
- Different packaging forms such as through-hole, flange, threaded hole
- Maximum power:100W
- Protection:undervoltage,overvoltage,overcurrent,shortcircuit,overtemperature
- Enable selectable positive logic or negative logic
- Isolation Voltage: 1500VDC
- Wide input voltage range of 9V to 36V、16V to 40V
- High reliability, aligned with MIL-PRF-38534



Series	Input Voltage(V)	Output Voltage(V)	Maximum Output Current(mA)	Efficiency (%)	Operating Ambient Temperature (°C)	Storage Temperature (°C)	Model
50W Output	9-36	3.3	15.2	88	-55~105	-55~125	D28E3R3M50SN
		5	10	89	-55~105	-55~125	D28E05M50SN
		12	4.2	89	-55~105	-55~125	D28E12M50SN
		15	3.3	90	-55~105	-55~125	D28E15M50SN
		28	1.8	91	-55~105	-55~125	D28E28M50SN
100W Output	16-40	3.3	22.7	89	-55~105	-55~125	D28C3R3M100SN
		5	20	89	-55~105	-55~125	D28C05M100SN
		12	8.3	90	-55~105	-55~125	D28C12M100SN
		15	6.7	90	-55~105	-55~125	D28C15M100SN
		28	3.6	90	-55~105	-55~125	D28C28M100SN

Standard 1/32 Brick Isolated DC-DC

- Standard 1/32 Brick Isolated DC-DC
- Maximum power:50W
- Protection:undervoltage,overvoltage,overcurrent,shortcircuit,overtemperature
- Enable selectable positive logic or negative logic
- Isolation Voltage: 1500VDC
- Wide input voltage range of 9V to 36V、16V to 40V
- High reliability, aligned with MIL-PRF-38534



Series	Input Voltage(V)	Output Voltage(V)	Maximum Output Current(mA)	Efficiency (%)	Operating Ambient Temperature (°C)	Storage Temperature (°C)	Model
40W Output	9-36	3.3	12.2	87	-55~105	-55~125	D24E3R3M40TN
		5	8	87	-55~105	-55~125	D24E05M40TN
		12	3.4	87	-55~105	-55~125	D24E12M40TN
		15	2.7	88	-55~105	-55~125	D24E15M40TN
		28	1.43	89	-55~105	-55~125	D24E28M40TN
50W Output	16-40	3.3	15.2	89	-55~105	-55~125	D28C3R3M50TN
		5	10	89	-55~105	-55~125	D28C05M50TN
		12	4.2	91	-55~105	-55~125	D28C12M50TN
		15	3.4	91	-55~105	-55~125	D28C15M50TN
		28	1.8	91	-55~105	-55~125	D28C28M50TN

2×1 inches Isolated DC-DC

- 2×1 inches Isolated DC-DC
- Different packaging forms such as through-hole, flange, threaded hole
- Maximum power:50W
- Protection:undervoltage,overvoltage,overcurrent,shortcircuit,overtemperature
- Isolation Voltage: 1500VDC
- Enable control, adjustable output
- High reliability, aligned with MIL-PRF-38534



Series	Input Voltage(V)	Output Voltage(V)	Maximum Output Current(mA)	Efficiency (%)	Operating Ambient Temperature (°C)	Storage Temperature (°C)	Model
20W Output	9-36	3.3	6.1	86	-55~105	-55~125	D24E3R3M20KN
		5	4	86	-55~105	-55~125	D24E05M20KN
		12	1.7	87	-55~105	-55~125	D24E12M20KN
		15	1.34	87	-55~105	-55~125	D24E15M20KN
		28	0.72	87	-55~105	-55~125	D24E28M20KN
50W Output	16-40	3.3	9.1	87	-55~105	-55~125	D28C3R3M30KN
		5	8	87	-55~105	-55~125	D28C05M40KN
		12	4.2	88	-55~105	-55~125	D28C12M50KN
		15	3.4	88	-55~105	-55~125	D28C15M50KN
		28	1.8	88	-55~105	-55~125	D28C28M50KN
40W Output	18-75	3.3	9.1	87	-55~105	-55~125	D48E3R3M30KN
		5	8	87	-55~105	-55~125	D48E05M40KN
		12	3.34	88	-55~105	-55~125	D48E12M40KN
		15	2.7	88	-55~105	-55~125	D48E15M40KN
		28	1.43	89	-55~105	-55~125	D48E28M40KN

1×1 inches Isolated DC-DC

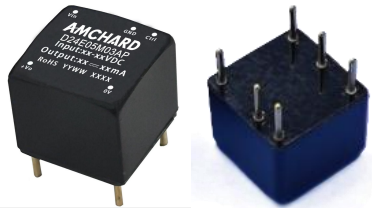
- 1×1 inches Isolated DC-DC
- Maximum power:50W
- Protection:undervoltage,overvoltage,overcurrent,shortcircuit,overtemperature
- Isolation Voltage: 1500VDC
- Enable control, adjustable output
- High reliability,aligned with MIL-PRF-38534



Series	Input Voltage(V)	Output Voltage(V)	Maximum Output Current(mA)	Efficiency (%)	Operating Ambient Temperature (°C)	Storage Temperature (°C)	Model
20W Output	9-36	5	4	84	-55~105	-55~125	D18E05M20JP
		7	2.85	84	-55~105	-55~125	D24E07M20JP
		12	1.67	84	-55~105	-55~125	D18E12M20JP
		15	1.33	84	-55~105	-55~125	D24E15M20JP
		24	0.83	85	-55~105	-55~125	D24E24M20JP
		28	0.71	85	-55~105	-55~125	D24E28M20JP
		±5	2	84	-55~105	-55~125	D24E05DM20JP
		±12	0.83	86	-55~105	-55~125	D24E12DM20JP
		±15	0.67	86	-55~105	-55~125	D24E15DM20JP
30W Output		5	6	89	-55~105	-55~125	D24E05M30JP
40W Output		5	8	89	-55~105	-55~125	D24E05M40JP
		12	3.33	88	-55~105	-55~125	D18E12M40JP
30W Output	16-40	5	6	84	-55~105	-55~125	D28C05M30JP
		12	2.5	85	-55~105	-55~125	D28C12M30JP
50W Output		5	10	89	-55~105	-55~125	D28C05M50JP
		12	4.2	90	-55~105	-55~125	D28C12M50JP

0.5×0.5 inches Isolated DC-DC

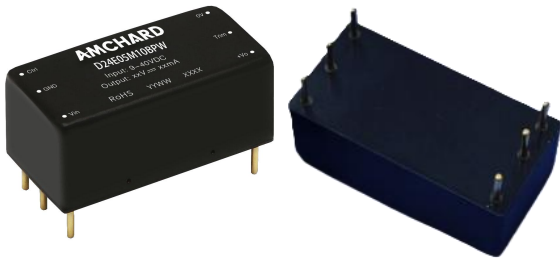
- 0.5×0.5 inches Isolated DC-DC
- Maximum power:3W
- Protection:undervoltage,overvoltage,overcurrent,shortcircuit,overtemperature
- Adjustable output
- Isolation Voltage: 500VDC
- High reliability, aligned with MIL-PRF-38534



Series	Input Voltage(V)	Output Voltage(V)	Maximum Output Current(mA)	Efficiency (%)	Operating Ambient Temperature (°C)	Storage Temperature (°C)	Model
3W Output	9-36	3.3	0.91	73	-55~105	-55~125	D24E3R3M03AP
		5	0.6	78	-55~105	-55~125	D24E05M03AP
		6	0.5	78	-55~105	-55~125	D24E06M03AP
		12	0.25	81	-55~105	-55~125	D24E12M03AP
		15	0.2	81	-55~105	-55~125	D24E15M03AP
		24	0.125	83	-55~105	-55~125	D24E24M03AP
		28	0.11	83	-55~105	-55~125	D24E28M03AP
3W Output	16-40	3.3	0.91	78	-55~105	-55~125	D28C3R3M03AP
		5	0.6	78	-55~105	-55~125	D28C05M03AP
		6	0.5	81	-55~105	-55~125	D28C06M03AP
		12	0.25	82	-55~105	-55~125	D28C12M03AP
		15	0.2	79	-55~105	-55~125	D28C15M03AP
		24	0.125	82	-55~105	-55~125	D28C24M03AP
		28	0.11	83	-55~105	-55~125	D28C28M03AP

1×0.5 inches Isolated DC-DC

- 1×0.5 inches Isolated DC-DC
- Maximum power:15W
- Protection:undervoltage,overvoltage,overcurrent,shortcircuit,overtemperature
- Adjustable output
- Isolation Voltage: 500VDC
- High reliability,aligned with MIL-PRF-38534



Series	Input Voltage(V)	Output Voltage(V)	Maximum Output Current(mA)	Efficiency (%)	Operating Ambient Temperature (°C)	Storage Temperature (°C)	Model
10W Output	9-36	5	2	85	-55~105	-55~125	D24E05M10BPW
		6	1.67	85	-55~105	-55~125	D24E06M10BPW
		9	1.1	84	-55~105	-55~125	D24E09M10BPW
		12	0.83	86	-55~105	-55~125	D24E12M10BPW
		15	0.67	86	-55~105	-55~125	D24E15M10BPW
		24	0.42	89	-55~105	-55~125	D24E24M10BPW
		28	0.36	89	-55~105	-55~125	D24E28M10BPW
15W Output	16-40	5	3	84	-55~105	-55~125	D28C05M15BPW
		6	2.5	84	-55~105	-55~125	D28C06M15BPW
		9	1.67	83	-55~105	-55~125	D28C09M15BPW
		12	1.25	84	-55~105	-55~125	D28C12M15BPW
		15	1	84	-55~105	-55~125	D28C15M15BPW
		24	0.63	87	-55~105	-55~125	D28C24M15BPW
		28	0.54	87	-55~105	-55~125	D28C28M15BPW
		±10	0.75	83	-55~105	-55~125	D28C10DM15BPW
		±12	0.63	85	-55~105	-55~125	D28C12DM15BPW
		±15	0.5	87	-55~105	-55~125	D28C15DM15BPW