

■ Features:

- DC input:36VDC--60VDC
- ➤ High Efficiency, and High reliability
- ➤ Output protections: SCP/OVP/OLP/OPP
- ➤ Wide operating ambient temperature (0°C~50°C)
- ➤ All using 105°C long life electrolytic capacitors.
- > 100% full load burn-in test
- > 1 year warranty

SPECIFICATION

Output Number	MODEL		DCM-48D100D5+12	
Rated Current 15.0A	OUTPUT	Ouput Number	V1	V2
Current Range Note 1		DC Output	5.5V	12.0V
Ripple and Noise Note 2		Rated Current	15.0A	0.8A
Voltage Accuracy		Current Range Note 1	0 ~15.0A	0~0.8A
Line Regulation		Ripple and Noise Note 2 0~50°C	100mV	120mV
Line Regulation ±0.5% ±1.0% Load Regulation ±2.0% ±2.0% Set up Time <2.0S (48Vdc input, Full load) Hold up Time / Temperature Coefficient ±0.03%/°C ±0.1%/°C Overshoot and Undershoot <5.0% Voltage Range 36Vdc-60Vdc Frequency Range / Efficiency (Typical) 75%@48Vdc, DC Current (max.) 3.5A Inrush Current (Typical) / Leakage Current / Over Power 110%-165% of rated output power, auto recovery Over Voltage V1.6.5V-9.0V auto recovery Shorted Circuit Long-time; auto recovery Shorted Circuit Long-time; auto recovery Shorted Circuit Storage Temp. & Hum. 0°C-50°C; 10%-95%RH No condensing Safety Standards GB4943-2001; EN60950-1; 2006 Withstand Voltage Primay-Secondary,0.5KVdc≪15mA Primary-PG-0.5KVdc≪5mA. Safety Standards Selation / Harmonic Current / EMS Immunity / MTBF (MIL-HDBK-217F) More than 200.00Hrs (25°C, Full load) Dimension (L°W'H) 160-98×38mm Cooling method Cooling by free air convection 1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature. 2. Measured at 20MHz of bandwidth by using a 12° Wisted pair-wire terminated with a 0.1 uF & 10uF parallet capacitor. 3. The SPS is considered a component with will be installed into line alequipment. The sprimment that it still m		Voltage Accuracy	±3.0%	±20.0%
Set-up Time		Line Regulation	±0.5%	±1.0%
Hold up Time		Load Regulation	±2.0%	±20.0%
Temperature Coefficient		Set-up Time	<2.0S (48Vdc input, Full load)	
Overshoot and Undershoot		Hold up Time	1	
Voltage Range		Temperature Coefficient	±0.03%/°C	±0.1%/°C
Frequency Range		Overshoot and Undershoot	<5.0%	
Efficiency (Typical) 75%@48Vdc, DC Current (max.) 3.5A Inrush Current (Typical) / Leakage Current / Over Power 110%-165% of rated output power, auto recovery Over Current 110%-170% of rated output current, auto recovery Over Voltage V1:6.5V-9.0V auto recovery Shorted Circuit Long-time: auto recovery Operating amb.Temp.& Hum. 0°C-50°C; 20%-90%RH No condensing Storage Temp. & Hum. 20°C-80°C; 10%-95%RH No condensing Safety Standards GB4943-2001: EN60950-1: 2006 Withstand Voltage Primary-Secondary:0.5KVdc≤15mA.Primary-PG:0.5KVdc≤10mA.Secondary-PG:0.5KVdc≤5mA. SAFETY &EMC (Note 3) EMI Conduction&Radiation / Harmonic Current / EMS Immunity / MTBF (MIL-HDBK-217F) More than 200,000Hrs (25°C, Full load) OTHERS OTHERS More than 200,000Hrs (25°C, Full load) Dimension (L'W'H) 160×98×38mm Cooling method Cooling by free air convection 1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature. 2. Measured at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1 uf & 10uF parallel capacitor. 3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still m	INPUT	Voltage Range	36Vdc60Vdc	
DC Current (max.) 3.5A		Frequency Range	1	
DC Current (max.) 3.5A Inrush Current (Typical)		Efficiency (Typical)	75%@48Vdc,	
Leakage Current		DC Current (max.)	3.5A	
PROTECTION Over Power 110%-165% of rated output power, auto recovery Over Current 110%-170% of rated output current, auto recovery Over Voltage V1:6.5V-9.0V auto recovery Shorted Circuit Long-time: auto recovery Operating amb.Temp.& Hum. O'C-50°C; 20%-90%RH No condensing Storage Temp. & Hum. Safety Standards GB4943-2001; EN60950-1; 2006 Withstand Voltage Primary-Secondary:0.5KVdc≤15mA.Primary-PG:0.5KVdc≤10mA.Secondary-PG:0.5KVdc≤5mA. Isolation Resistance EMI Conduction&Radiation Harmonic Current EMS Immunity / MTBF (MIL-HDBK-217F) More than 200,000Hrs (25°C, Full load) Dimension (L'W'H) Cooling method Cooling by free air convection 1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature. 2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor. 3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still m		Inrush Current (Typical)	1	
PROTECTION Over Current Over Voltage Shorted Circuit Long-time; auto recovery Shorted Circuit Operating amb.Temp.& Hum. O°C -50°C; 20%-90%RH No condensing Storage Temp. & Hum. -20°C -80°C; 10%-95%RH No condensing Safety Standards GB4943-2001; EN60950-1; 2006 Withstand Voltage Primary-Secondary:0.5KVdc≤15mA.Primary-PG:0.5KVdc≤10mA.Secondary-PG:0.5KVdc≤5mA. SAFETY &EMC (Note 3) EMI Conduction&Radiation Harmonic Current		Leakage Current	1	
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ENVIRONMENT Operating amb.Temp. & Hum. O°C - 50°C; 20% - 90%RH No condensing Storage Temp. & Hum20°C - 80°C; 10% - 95%RH No condensing Safety Standards GB4943-2001; EN60950-1: 2006 Withstand Voltage Primary-Secondary:0.5KVdc≤15mA.Primary-PG:0.5KVdc≤10mA.Secondary-PG:0.5KVdc≤5mA. Isolation Resistance MIC Conduction&Radiation / Harmonic Current / EMS Immunity / MTBF (MIL-HDBK-217F) More than 200,000Hrs (25°C, Full load) Dimension (L*W*H) 160×98×38mm Cooling method Cooling by free air convection All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature. Measured at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor. 3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still measured.		Over Voltage	V1:6.5V~9.0V auto recovery	
Storage Temp. & Hum. -20°C -80°C; 10%-95%RH No condensing Safety Standards GB4943-2001; EN60950-1: 2006 Withstand Voltage Primary-Secondary:0.5KVdc≤15mA.Primary-PG:0.5KVdc≤10mA.Secondary-PG:0.5KVdc≤5mA. Isolation Resistance EMI Conduction&Radiation Harmonic Current EMS Immunity MTBF (MIL-HDBK-217F) More than 200,000Hrs (25°C, Full load) Dimension (L*W*H) 160×98×38mm Cooling method Cooling by free air convection 1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature. 2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor. 3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still measured.		Shorted Circuit	Long-time; auto recovery	
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	NOTE	 Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets 		

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