Pollock Industries

300 Watt, 12 Volt, Medical Safety Certified Single Output Power Supply with PFC

UNIT CODE	DESCRIPTION
MED-PS 300-12V	300 Watt, 12 Volt, Single Output Medical Power Supply with Active PFC Function

SPECIFICATIONS				
AC Input	Output	Approvals		
Universal AC input 85 ~ 264V	+12VDC @ 0 ~ 27A	+ ⊕ c ¶ us CB(€		

Features at a Glance:

Medical safety certified, MOOP level Built-in active PFC function, PF>0.95 Withstands 300VAC surge for 5 seconds Low leakage current <300µA/264VAC No load power consumption < 0.5W Standby 5V @ 0.3A

1U low profile case: 41mm

Protection: Short circuit; Overload; Over voltage; Over temperature

Built-in: Constant current limiting circuit; Remote ON-OFF control; DC OK signal; Cooling fan with ON-OFF control

Working temperature range -40°C ~ +70°C

Certificates: UL / CUL / CB / CE

Safety standards: ANSI/AAMI ES60601-1,

IEC60601-1 approved

EMC standards: Class B level

(see following pages for complete EMC details)

MTBF: 176K hrs min. MIL-HDBK-217F (25°C)

Case: 980A

Weight: 1.69 lbs (0.77 Kgs)

Dimensions: 7.83 x 4.13x 1.61 inches (LxWxH)

199 x 105 x 41mm (LxWxH)

5 year warranty

Release & Application Notes



The MED-PS 300 series are medium power, highly reliable power supplies deigned to meet the rigerous demands of the medical device and equipment markets. These are 300 Watt, compact, efficient, AC/DC enclosed medical type power supplies that comply with international medical safety regulations (MOOP level).

Standard functions include built-in remote ON/OFF control, protections for short circuit, overload (constant current mode), over voltage, and over temperature. Additionally, with low leakage current (≤300µA), extremely low no-load power consumption (<0.6W), 1U low profile (41mm). This series meet the high quality requirements for medical applications and are an excellent choice for non-patient contact instruments and equipmet. Global certificates of compliance meeting UL/CUL/CB/CE medical safety requirements ensure users' safety. EMI, Class B Level, compliant.

Suitable applications include medical and diagnostic equipment requiring low leakage current such as lab and analysis equipment, monitoring equipment, MRI & X-ray machines, CT Scanners, chemical or biological detection equipment, as well as any system requiring low leakage current and/or low, no-load, power consumption.

Pricing: 1 ~ 9 \$ 229.00 10+ 206.50 25+ 184.50

POLLOCK INDUSTRIES, INC. 81 Butternut Road, White River, VT 05001 toll-free 1-866-665-5434 (603) 888-2467 power@electracool.com



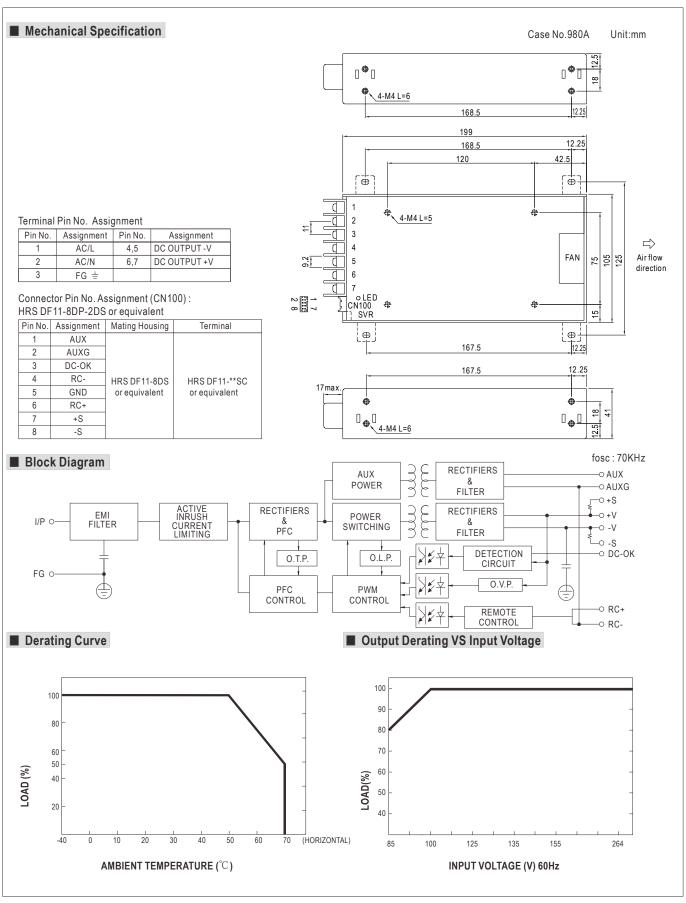
■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 89%
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- 1U low profile 41mm
- Medical safety approved (MOOP level)
- Built-in cooling fan ON-OFF control
- Built-in DC OK signal
- Built-in remote ON-OFF control
- Standby 5V@0.3A
- Built-in remote sense function
- No load power consumption<0.5W (Note.6)
- 5 years warranty



SPECIFICATION

DC VOLTAGE RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.)	$2.8 \sim 3.8 \text{V}$ $\pm 2.5 \%$ $\pm 0.5 \%$ $\pm 1.0 \%$ 1000 ms, 50 ms 16 ms/230 VAC $85 \sim 264 \text{VAC}$		7.5V 40A 0 ~ 40A 300W 100mVp-p 6.8 ~ 9V ± 2.0% ± 0.5% ± 1.0%	12V 27A 0 ~ 27A 324W 120mVp-p 10.2 ~ 13.8V ± 1.0%	15V 22A 0 ~ 22A 330W 150mVp-p 13.5 ~ 18V	24V 14A 0 ~ 14A 336W 150mVp-p 21.6 ~ 28.8V	36V 9A 0~9A 324W 250mVp-p	48V 7A 0 ~ 7A 336W 250mVp-p		
CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	0~60A 198W 80mVp-p 2.8~3.8V ±2.5% ±0.5% ±1.0% 1000ms, 50ms 16ms/230VAC 85~264VAC	0~60A 300W 90mVp-p 4.3~5.8V ±2.0% ±0.5% ±1.0% /230VAC 2	0~40A 300W 100mVp-p 6.8~9V ±2.0% ±0.5%	0 ~ 27A 324W 120mVp-p 10.2 ~ 13.8V	0 ~ 22A 330W 150mVp-p 13.5 ~ 18V	0 ~ 14A 336W 150mVp-p	0 ~ 9A 324W 250mVp-p	0 ~ 7A 336W		
RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	$\begin{array}{c} 198W \\ 80mVp-p \\ 2.8 \sim 3.8V \\ \pm 2.5\% \\ \pm 0.5\% \\ \pm 1.0\% \\ 1000ms, 50ms \\ 16ms/230VAC \\ 85 \sim 264VAC \end{array}$	300W 90mVp-p 4.3 ~ 5.8V ± 2.0% ± 0.5% ± 1.0% /230VAC 2	300W 100mVp-p 6.8 ~ 9V ± 2.0% ± 0.5%	324W 120mVp-p 10.2 ~ 13.8V	330W 150mVp-p 13.5 ~ 18V	336W 150mVp-p	324W 250mVp-p	336W		
RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	80mVp-p $2.8 \sim 3.8 \text{V}$ $\pm 2.5 \%$ $\pm 0.5 \%$ $\pm 1.0 \%$ $1000 \text{ms}, 50 \text{ms}$ $16 \text{ms}/230 \text{VAC}$ $85 \sim 264 \text{VAC}$	90mVp-p 4.3 ~ 5.8V ± 2.0% ± 0.5% ± 1.0% /230VAC 2	100mVp-p 6.8 ~ 9V ± 2.0% ± 0.5%	120mVp-p 10.2 ~ 13.8V	150mVp-p 13.5 ~ 18V	150mVp-p	250mVp-p			
VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	$2.8 \sim 3.8 \text{V}$ $\pm 2.5 \%$ $\pm 0.5 \%$ $\pm 1.0 \%$ 1000 ms, 50 ms 16 ms/230 VAC $85 \sim 264 \text{VAC}$	4.3 ~ 5.8V ± 2.0% ± 0.5% ± 1.0% /230VAC 2	6.8 ~ 9V ±2.0% ±0.5%	10.2 ~ 13.8V	13.5 ~ 18V			250mVp-p		
VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	$\pm 2.5\%$ $\pm 0.5\%$ $\pm 1.0\%$ 1000ms, 50 ms 16ms/ 230 VAC $85 \sim 264$ VAC	±2.0% ±0.5% ±1.0% /230VAC 2	±2.0% ±0.5%			21.6 ~ 28.8V				
LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	$\pm 0.5\%$ $\pm 1.0\%$ $1000 \mathrm{ms}, 50 \mathrm{ms}$ $16 \mathrm{ms}/230 \mathrm{VAC}$ $85 \sim 264 \mathrm{VAC}$	±0.5% ±1.0% /230VAC 2	±0.5%	±1.0%	+ 1 00/		28.8 ~ 39.6V	40.8 ~ 55.2\		
LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	±1.0% 1000ms, 50ms 16ms/230VAC 85 ~ 264VAC	±1.0% /230VAC 2			$\pm 1.0\%$	±1.0%	±1.0%	±1.0%		
SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	1000ms, 50ms 16ms/230VAC 85 ~ 264VAC	/230VAC 2	±1.0%	$\pm 0.3\%$	±0.3%	±0.2%	±0.2%	±0.2%		
HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	16ms/230VAC 85 ~ 264VAC			±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	85 ~ 264VAC	40	1000ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load							
FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)		16ms/230VAC 16ms/115VAC at full load								
POWER FACTOR (Typ.) EFFICIENCY (Typ.)	47 ~ 63Hz	85 ~ 264VAC 120 ~ 370VDC								
EFFICIENCY (Typ.)	11 00112	47 ~ 63Hz								
	PF>0.95/230V	AC PF>0.9	99/115VAC at ful	lload						
AC CUDDENT (Tup.)	80%	82%	86%	88%	88%	87%	88%	89%		
AC CORRENT (Typ.)	4.5A/115VAC	2.25A/230V	AC							
INRUSH CURRENT (Typ.)	35A/115VAC	70A/230VA	С							
LEAKAGE CURRENT	Earth leakage	current < 450μA	/264VAC , Touch	leakage current	< 100μA/264VA(
		ted output powe			·					
OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed									
	3.96 ~ 4.62V	6 ~ 7V	9.4 ~ 10.9V	14.4 ~ 16.8V	18.8 ~ 21.8V	30 ~ 34.8V	41.4 ~ 48.6V	57.6 ~ 67.2		
OVER VOLTAGE		: Shut down o/	p voltage, re-po	ver on to recove	r	1				
OVER TEMPERATURE	Vi V V V V									
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			17 (25 ()							
			_							
PACKING	0									
 Ripple & noise are measure Tolerance : includes set up The power supply is consid 	ed at 20MHz of tolerance, line r ered a compone ce on how to pe	bandwidth by usegulation and lo ent which will be	sing a 12" twiste bad regulation. e installed into a	d pair-wire termifinal equipment.	inated with a 0.1 The final equip	uf & 47uf parall	e-confirmed that	it still meets		
C S C F F V V S T V T T E E M C F F F F F F T T T T	DVER TEMPERATURE BY STANDBY DC OK SIGNAL REMOTE CONTROL FAN CONTROL (Typ.) PVORKING TEMP. PVORKING HUMIDITY STORAGE TEMP., HUMIDITY FEMP. COEFFICIENT FIBRATION BAFETY STANDARDS SOLATION LEVEL PVITHSTAND VOLTAGE SOLATION RESISTANCE FIMC EMISSION FIMC IMMUNITY FATER DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. The power supply is consid EMC directives. For guidan	Profection types DVER TEMPERATURE Shut down o/p* SVSB: 5V@0.3 DC OK SIGNAL REMOTE CONTROL RC+ / RC-: 4 ~ FAN CONTROL (Typ.) Load 35±15% PORKING TEMP. PORKING HUMIDITY STORAGE TEMP., HUMIDITY FEMP. COEFFICIENT TEMP. COEFFICIENT TEMP. COEFFICIENT TEMP. COEFFICIENT TEMP. TANDARDS ANSI/AAMI ESI SOLATION LEVEL PRIMATY-SECON WITHSTAND VOLTAGE SOLATION RESISTANCE TOPO/P: 4KVAC SOLATION RESISTANCE TOPO/P: 4KVAC TEMP. COMPLIANCE TOPO/P: 4KVAC TOMBER TOPO/P: 4KVA	Protection type: Shut down of prote	Profection type: Shut down o/p voltage, re-por DVER TEMPERATURE Shut down o/p voltage, recovers automatically SYSE: 5V@0.3A; tolerance ± 5%, ripple: 50mV DC OK SIGNAL PSU turns on: 3.3 ~ 5.6V; PSU turns off: 0 ~ 1 REMOTE CONTROL RC+ / RC-: 4 ~ 10V or open = power on; 0 ~ 0.8V RAN CONTROL (Typ.) Load 35±15% or RTH2≥50°C Fan on VORKING TEMP. VORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY 40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ± 0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, 60min. each all SAFETY STANDARDS ANSI/AAMI ES60601-1, IEC60601-1 approved SOLATION LEVEL Primary-Secondary: 2×MOOP, Primary-Earth: VITHSTAND VOLTAGE I/P-O/P: 4KVAC I/P-FG: 2KVAC O/P-FG: 0. SOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC EMC EMISSION Compliance to EN55011 (CISPR11) Class B, E EMC IMMUNITY Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN6 DIMENSION 199*105*41mm (L*W*H) OACKING 0.95Kg;15pcs/15.3Kg/0.69CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, re 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twiste 3. Tolerance : includes set up tolerance, line regulation and load regulation, 4. The power supply is considered a component which will be installed into a	Protection type: Shut down o/p voltage, re-power on to recove SVER TEMPERATURE Shut down o/p voltage, recovers automatically after temperature SV STANDBY 5VSB: 5V@0.3A; tolerance ±5%, ripple: 50mVp-p(max.) COK SIGNAL PSU turns on: 3.3 ~ 5.6V; PSU turns off: 0 ~ 1V REMOTE CONTROL RC+ / RC-: 4 ~ 10V or open = power on; 0 ~ 0.8V or short = power on to control to the control	Protection type: Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-covers automatically after temperature goes down SYSTANDBY 5VSB: 5V@0.3A; tolerance ± 5%, ripple: 50mVp-p(max.) PSU turns on: 3.3 ~ 5.6V; PSU turns off: 0 ~ 1V REMOTE CONTROL RC+ / RC-: 4 ~ 10V or open = power on; 0 ~ 0.8V or short = power off EAN CONTROL (Typ.) Load 35±15% or RTH2≥50°C Fan on WORKING TEMP. 40 ~ +70°C (Refer to "Derating Curve") WORKING HUMIDITY 5TORAGE TEMP., HUMIDITY 20 ~ 90% RH non-condensing 5TORAGE TEMP., HUMIDITY 40 ~ +85°C, 10 ~ 95% RH EMP. COEFFICIENT 4 0.03%/°C (0 ~ 50°C) //BRATION 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes ANSI/AAMI ES60601-1, IEC60601-1 approved Primary-Secondary: 2×MOOP, Primary-Earth: 1×MOOP WITHSTAND VOLTAGE I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC SOLATION RESISTANCE I/P-O/P;4KVAC I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN55011 (CISPR11) Class B, EN61000-3-2,-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN60601-1-2 ATBF 176Khrs min. MIL-HDBK-217F (25°C) MIMENSION 199*105*41mm (L*W*H) 0.95Kg;15pcs/15.3Kg/0.69CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient to 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment.	Protection type: Shut down o/p voltage, re-power on to recover Shut down o/p voltage, recovers automatically after temperature goes down SVSB: 5V⊗0.3A; tolerance±5%, ripple: 50mVp-p(max.) PSU turns on: 3.3 ~ 5.6V; PSU turns off: 0 ~ 1V REMOTE CONTROL RC+ / RC-: 4 ~ 10V or open = power on; 0 ~ 0.8V or short = power off RAN CONTROL (Typ.) Load 35±15% or RTH2≥50°C Fan on VORKING TEMP. VORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP, HUMIDITY 40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ± 0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 56 10min./1cycle, 60min. each along X, Y, Z axes ANSI/AAMI ES60601-1, IEC60601-1 approved SOLATION LEVEL Primary-Secondary: 2×MOOP, Primary-Earth: 1×MOOP VITHSTAND VOLTAGE I/P-O/P:4KVAC I/P-FG;2KVAC O/P-FG:0.5KVAC SOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH CMC EMISSION Compliance to EN55011 (CISPR11) Class B, EN61000-3-2,-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN60601-1-2 ATBF 176Khrs min. MIL-HDBK-217F (25°C) DIMENSION 199*105*41mm (L*W*H) PACKING 0.95Kg;15pcs/15.3Kg/0.69CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf paral 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be refused.	Protection type: Shut down o/p voltage, re-power on to recover Shut down o/p voltage, recovers automatically after temperature goes down Ver STANDBY 5VSB: 5V@0.3A; tolerance ±5%, ripple: 50mVp-p(max.) DC OK SIGNAL PSU turns on: 3.3 ~ 5.6V; PSU turns off: 0 ~ 1V REMOTE CONTROL RC+ / RC-: 4 ~ 10V or open = power on; 0 ~ 0.8V or short = power off AN CONTROL (Typ.) Load 35±15% or RTH2≥50°C Fan on VORKING TEMP. 40 ~ +70°C (Refer to "Derating Curve") VORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY 40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes SAFETY STANDARDS ANSI/AAMI ES60601-1, IEC60601-1 approved SOLATION LEVEL Primary-Secondary: 2*MOOP, Primary-Earth: 1*MOOP WITHSTAND VOLTAGE VIP-O/P:4KVAC / IP-FG:2KVAC O/P-FG:0.5KVAC SOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH CMC EMISSION Compliance to EN55011 (CISPR1) Class B, EN61000-3-2,-3 EMC EMISSION 199*105*41mm (L*W*H) PACKING 0.95Kg:15pcs/15.3Kg/0.69CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.		



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File Name:MED MPS-300-SPEC 2014-12-12

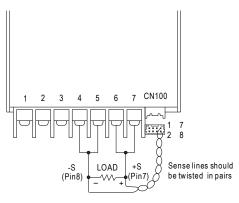
■ Function Description of CN100

Pin No.	Function	Description
1		Auxiliary voltage output, 4.75~5.25V, reference to pin 2(AUXG). The maximum load current is 0.3A. This output has the built-in oring diodes and is not controlled by the "remote ON/OFF control".
2	AUXG	Auxiliary voltage output ground. The signal return is isolated from the output terminals (+V & -V).
3	DC-OK	DC-OK signal is a TTL level signal, referenced to pin5(DC-OK GND). High when PSU turns on.
4	RC-	Remote control ground.
5	GND	This pin connects to the negative terminal (-V). Return for DC-OK signal output.
6	RC+	Turns the output on and off by electrical or dry contact between pin 4 (RC-), Short: Power OFF, Open: Power ON.
7	+S	Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
8		Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.

■ Function Manual

1.Remote Sense

The remote sensing compensates voltage drop on the load wiring up to 0.5V.



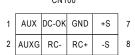
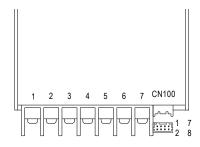


Fig 1.1

2.DC-OK Signal

DC-OK signal is a TTL level signal. High when PSU turns on.

Between DC-OK(pin6) and GND(pin4)	Output Status
3.3 ~ 5.6V	ON
0 ~ 1V	OFF



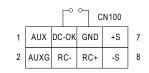


Fig 2.1

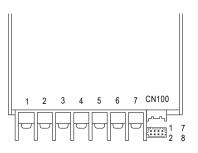
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3.Remote Control

The PSU can be turned ON/OFF by using the "Remote ON/OFF" function

Between RC+(pin3) and RC-(pin5)	Output Status
SW ON (Short)	OFF
SW OFF (Open)	ON



1 AUX DC-OK GND +S 7
2 AUXG RC- RC+ -S 8

CN100

Fig 3.1

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