

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- Universal AC input / Full range (up to 305VAC)
- · Built-in active PFC function
- · High efficiency up to 93%
- · Fanless design, cooling by free air convection
- -55~+70°C wide operating range
- · Aluminum case and filling with heat-conducted silicone
- · IP65 design, optional IP68 rated model available
- Meet 6KV surge immunity level
- · Withstand 10G vibration test
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Operating altitude up to 5000 meters (Note.9)
- 6 years warranty

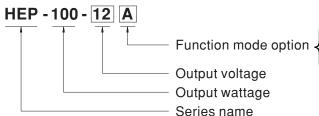
Applications

- Outdoor telecommunication equipment
- · Outdoor electronic signage and billboard
- · Petroleum plant or mine shaft facility

Description

HEP-100 is a 100W industrial AC/DC power supply featuring the outstanding capability to operate under highly humid, dusty, oily, and high-vibration harsh environment. The entire series is housed with the aluminum case and fully potted with heat-conducted silicone. Thanks to state-of-the-art design, the working efficiency is up to 93%, enabling HEP-100 perfectly work between -55 $^{\circ}$ C and +70 $^{\circ}$ C under free air convection.

■ Model Encoding



A: Standard model, IP65, Vo and Io level can be adjusted through internal potentiometer.

Blank: Optional model, IP68, with fixed Vo and lo level.

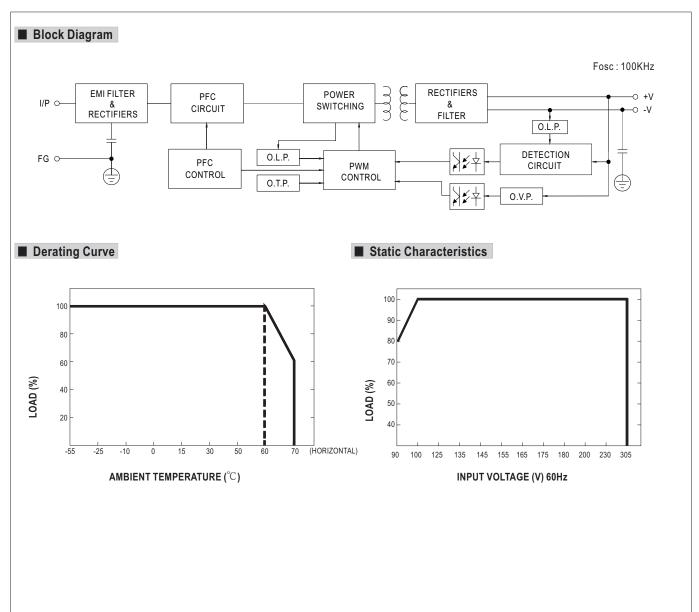


SPECIFICATION

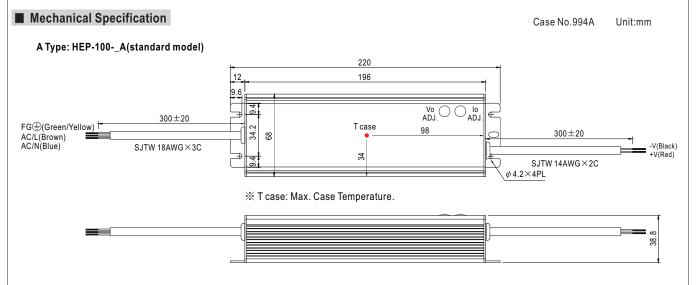
C VOLTAGE RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 /OLTAGE ADJ. RANGE Note.5 CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION	10.8 ~ 13.5V Can be adjusted by 5 ~ 8.34A		24V 4A 96W 150mVp-p 22 ~ 27V	36V 2.65A 95.4W 200mVp-p	48V 2A 96W	54V 1.77A 95.58W		
RATED POWER RIPPLE & NOISE (max.) Note.2 /OLTAGE ADJ. RANGE Note.5 CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 LINE REGULATION	100.08W 120mVp-p 10.8 ~ 13.5V Can be adjusted b 5 ~ 8.34A	100.05W 150mVp-p 13.5 ~ 17V y internal potention	96W 150mVp-p	95.4W	96W			
RIPPLE & NOISE (max.) Note.2 /OLTAGE ADJ. RANGE Note.5 CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 LINE REGULATION	120mVp-p 10.8 ~ 13.5V Can be adjusted b 5 ~ 8.34A	150mVp-p 13.5 ~ 17V y internal potention	150mVp-p			95.58W		
OLTAGE ADJ. RANGE Note.5 CURRENT ADJ. RANGE OLTAGE TOLERANCE Note.3 LINE REGULATION	10.8 ~ 13.5V Can be adjusted by 5 ~ 8.34A	13.5 ~ 17V y internal potention		200mVp-p	000 11			
CURRENT ADJ. RANGE /OLTAGE TOLERANCE Note.3 LINE REGULATION	Can be adjusted by 5 ~ 8.34A	y internal potention	22 ~ 27V		200mVp-p	200mVp-p		
OLTAGE TOLERANCE Note.3	5 ~ 8.34A			33 ~ 40V	43 ~ 53V	49 ~ 58V		
OLTAGE TOLERANCE Note.3			Can be adjusted by internal potentiometer for A type only					
INE REGULATION	1.0.00/	4 ~ 6.67A	2.5 ~ 4A	1.65 ~ 2.65A	1.25 ~ 2A	1.1 ~ 1.77A		
	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%		
OAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	±2.0%	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%		
SETUP, RISE TIME Note.7	1200ms,50ms/115VAC 500ms,50ms/230VAC at full load							
HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC							
/OLTAGE RANGE Note.4	90 ~ 305VAC 127 ~ 431VDC							
REQUENCY RANGE	47 ~ 63Hz PF>0.98/115VAC, PF>0.95/230VAC, PF>0.91/277VAC at full load							
POWER FACTOR (Typ.)								
EFFICIENCY (Typ.)	92%	92%	93%	93%	93%	93%		
AC CURRENT (Typ.)	1.2A / 115VAC	0.55A / 230VAC	0.5A / 277VAC	;				
NRUSH CURRENT(Typ.)	COLD START 60A at 230VAC							
EAKAGE CURRENT	<0.75mA / 277VAC							
OVERLOAD	105 ~ 125%							
	Protection type : Constant current limiting, recovers automatically after fault condition is removed							
SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed							
OVER VOLTAGE	14 ~ 17V	18 ~ 21V	28 ~ 34V	41 ~ 46V	54 ~ 63V	59 ~ 65V		
	Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery							
OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down							
NORKING TEMP.	-55 ~ +70°C (Refer to "Derating Curve")							
WORKING HUMIDITY	20 ~ 95% RH non-condensing							
STORAGE TEMP., HUMIDITY	-60 ~ +85°C, 10 ~ 95% RH non-condensing							
TEMP. COEFFICIENT	±0.03%/°C (0~60°C)							
/IBRATION	20 ~ 500Hz, 10G 12min./1cycle, period for 72min. each along X, Y, Z axes							
SAFETY STANDARDS Note.6,9								
VITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC							
SOLATION RESISTANCE								
EMC EMISSION								
EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level (surge 6KV), criteria A, EAC TP TC 020							
MTBF								
	220*68*38.8mm (L*W*H)							
DIMENSION		L"VV"H)						
OV NO NO STO SAF WIT SC EM	ORT CIRCUIT ER VOLTAGE ER TEMPERATURE DRKING TEMP. DRAGE TEMP., HUMIDITY MP. COEFFICIENT BRATION ETY STANDARDS Note.6,9 THSTAND VOLTAGE DLATION RESISTANCE IC EMISSION IC IMMUNITY BF	Protection type: C ORT CIRCUIT Constant current I 14 ~ 17V Protection type: S FER TEMPERATURE DRKING TEMP. ORAGE TEMP., HUMIDITY DRAGE TEMP., HUMIDITY DRAGE TEMP., HUMIDITY DRAGE TEMP., HUMIDITY SETY STANDARDS Note.6,9 UL60950-1, IP65 OLATION RESISTANCE DLATION RESISTANCE I/P-O/P, I/P-FG, C I/C EMISSION COMPLIANCE OF EN I/C IMMUNITY CONSTANT OF EN I/P-O/P, I/P-FG, C COMPLIANCE OF EN I/P-O/P, I/P-FG, C C C I/P-O/P, I/P-FG, C C I/P-O/P, I/P	Protection type: Constant current lim ORT CIRCUIT Constant current limiting, recovers at 14 ~ 17V Protection type: Shut down o/p volta 20 Protection type: Shut dow	Protection type: Constant current limiting, recovers auto ORT CIRCUIT Constant current limiting, recovers automatically after fair 14 ~ 17V Protection type: Shut down o/p voltage with auto-recove Shut down o/p voltage, recovers automatically after telestands ORKING TEMP. -55 ~ +70°C (Refer to "Derating Curve") ORAGE TEMP., HUMIDITY ORAGE TEMP., HUMIDITY -60 ~ +85°C, 10 ~ 95% RH non-condensing MP. COEFFICIENT \$\frac{\pmathbb{\text{\text{\$\text{\$\text{C}\$}}}}{\text{\$\t	Protection type: Constant current limiting, recovers automatically after fault Constant current limiting, recovers automatically after fault condition is remo 14 ~ 17V	Protection type: Constant current limiting, recovers automatically after fault condition is removed Constant current limiting, recovers automatically after fault condition is removed 14 ~ 17V		

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- 5. A type only.
- 6. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part18.
- 7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
- 8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again
- 9. The water protection level test for the IP68 rating is performed 1000mm below the surface of the water for 1 month.
- 10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

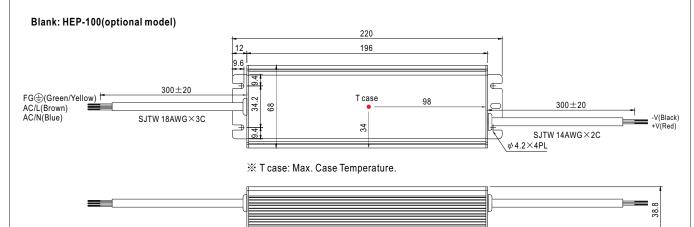








※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)



■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html