



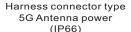






Wiring Type (IP67)





























Features

- High efficiency up to 95.5% and active PFC function
- · Fanless design, cooling by free air convection
- · Aluminum case and filling with heat-conducted glue
- · Withstand 10G vibration test
- Wide operating temperature range -40 ~ +70°C
- · Charger function for lead-acid batteries and Li-ion batteries
- Built-in default 2/3 stage charging curves and programmable curve
- Built-in CANBus and PMBus / MODBus by optional
- · Output voltage and constant current level programmable
- · Protections: Short circuit / Over load / Over voltage / Over temperature
- · Built-in remote ON-OFF control and DC OK active signal
- Harness connector type with AC fail and T-Alarm signal
- LED indicator for power on and 12V auxiliary power available
- · Diverse installation scenarios-Mounting methods
- 6 years warranty

Applications

- · Industrial automation machinery
- · Industrial control system at harsh environment
- Mechanical and electrical equipment
- · Electronic instruments, equipments
- · Charing related equipments.
- 4G telecom system(RRU)
- 5G active antenna unit(AAU)

GTIN CODE

 $\textbf{MW Search:} \ \underline{\textbf{https://www.meanwell.com/serviceGTIN.aspx}}$

■ Description

HEP-2300 is a 2300W 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 glue. Adopting the full range $90\sim305$ VAC input, the series provides an output voltage 55V. In addition to the high efficiency up to 95.5%, that the series operates from $-40\%\sim70\%$ under free air convection without fan. HEP-2300 has the complete protection functions and 10G anti-vibration capability; It is complied with the international safety regulations such as TUV EN62368-1 UL62368-1, and design refers to EN61558-1 and EN60335-1. HEP-2300 series serves as a high performance power supply solution for various industrial and 4G/5G telecom applications.

■ Model Encoding



I/O Type	Function type	Communication Protocol	Note
Terminal	Blank	CANBus and PV/PC programmable	In Stock
Terminai	PM	PMBus and PV/PC programmable	By request
	Blank	PV/PC programmable	In Stock
Wiring	PM	PMBus	By request
	CAN	CANBus	By request
Hamasaa	Blank	CANBus	In Stock
Harness connector	PM	PMBus	By request
Connector	MOD	MODBus-RTU/RS-485	By request

Note: 1.MEAN WELL can provide complete cable modification services. Please contact sales representatives for details.

2. Charger function by programmer or PMBus/CANBus/MODBus setting



SPECIFICATION

MODEL		HEP-2300-55					
	DC VOLTAGE (factory default)	55V					
	CURRENT (factory default)	41.8A					
	RATED CURRENT (max.)	48A					
}	POWER (factory default)	2300W					
}	RATED POWER (max.)	2304W					
}	FULL POWER VOLTAGE RANGE						
ОИТРИТ	RIPPLE & NOISE (max.) Note.2						
JUIPUI	KIFFEE & NOISE (IIIAX.) Note.2						
	VOLTAGE ADJ. RANGE	By potentiometer VR 39 ~ 57.6V					
	VOLTAGE TOLERANCE Note.3						
		±0.5%					
	LINE REGULATION	±0.5%					
	LOAD REGULATION						
	SETUP, RISE TIME	1800ms, 100ms/230VAC at full load					
	HOLD UP TIME (Typ.)	12ms/230VAC at full load					
		90 ~ 305VAC 250 ~ 431VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
NEUT	POWER FACTOR (Typ.)	PF>0.99/115VAC, PF>0.95/230VAC,	PF>0.93/277VAC at full load				
NPUT	EFFICIENCY (Typ.)	95.5%					
	AC CURRENT (Typ.)	13.3A / 115VAC 11A / 230VAC	9.3A / 277VAC				
	INRUSH CURRENT (Typ.)	Cold start 60A/230VAC					
	LEAKAGE CURRENT	<1.8mA Peak / 240VAC <2mA P	eak / 277VAC				
	OVERLOAD	105 ~ 115% rated output power					
	OVERLOAD	Protection type : Constant current lim	iting, unit will shutdown after 5 sec. re-pow	er on to recover			
PROTECTION		59 ~ 69.1V					
	OVER VOLTAGE	Protection type :Shut down O/P voltage	ge,re-power on to recover				
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down					
	OUTPUT VOLTAGE	Adjustment of output voltage is allowable to 50 ~ 120% of nominal output voltage Please refer to the Function Manual					
	OUTPUT CURRENT	Adjustment of constant current level is allowable to 20 ~ 100% of rated current					
	Please refer to the Function Manua		rent				
	REMOTE ON/OFF CONTROL		· OFF : Open circuit				
}	AUXILIARY POWER	12V@0.5A tolerance±10%, ripple 150mVp-p					
-	DC-OK SIGNAL		.5 ~ 5.5V; PSU turn off = -0.5 ~ 0.5V. Plea	ase refer to the Function Manual			
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve	<u> </u>	ase refer to the runction manual			
		20 ~ 95% RH non-condensing	=)				
ENVIRONMENT	WORKING HUMIDITY	•	oneina				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION	20 ~ 500Hz, 10G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	SAFETY STANDARDS			BS EN/EN61558-1, BS EN/EN60335-1(by reque			
	WITHSTAND VOLTAGE Note 6	OVCIII I/P-O/P: 6KVDC I/P-FG:4K	(VDC O/P-FG:4KVDC				
	ISOLATION RESISTANCE Note 6	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/					
		Parameter	Standard	Test Level / Note			
		Conducted	BS EN/EN55032 (CISPR32)	Class B			
	EMC EMISSION	Radiated	BS EN/EN55032 (CISPR32)	Class A			
		Harmonic Current	BS EN/EN61000-3-2	Class A			
SAFETY &		Voltage Flicker	BS EN/EN61000-3-3				
EMC		BS EN/EN55024, BS EN/EN61000-6	-2				
Note.7)		Parameter	Standard	Test Level / Note			
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact			
		Radiated	BS EN/EN61000-4-3	Level 3			
		EFT / Burst	BS EN/EN61000-4-4	Level 3			
	EMC IMMUNITY	Surge	BS EN/EN61000-6-2	2KV/Line-Line 4KV/Line-Earth			
		Conducted	BS EN/EN61000-4-6	Level 3			
		Ooriuuoteu					
		Magnetic Field	DC EN/ENG1000 1 0				
		Magnetic Field	BS EN/EN61000-4-8	Level 4			
		Magnetic Field Voltage Dips and Interruptions	BS EN/EN61000-4-8 BS EN/EN61000-4-11				
	МТВБ	Voltage Dips and Interruptions		>95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods			
OTHERS	MTBF DIMENSION	Voltage Dips and Interruptions	BS EN/EN61000-4-11 Bellcore); 44.8K hrs min. MIL-HDBK-21	>95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods			

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

- Tolerance includes set up tolerance, line regulation and load regulation.
 Derating may be needed under low input voltages. Please check the derating curve for more details.
 SVR function is disabled during PV/PC programming operation.
 During withstandards voltage and isolation resistance testing, the screw "A" shall be temporarily removed, and shall be istalled back after the testing.
- 7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 1100mm*650mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
- (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 8. 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).

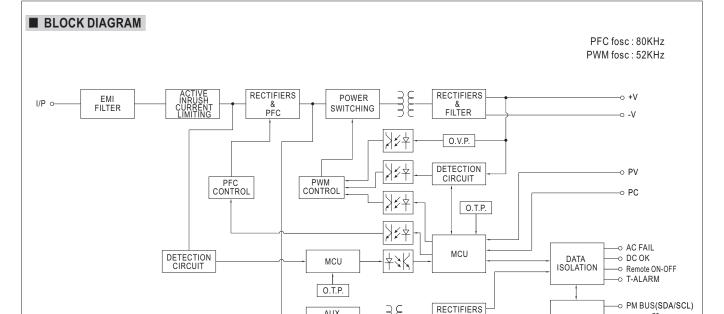
 9. This series meets the typical life expectancy of > 55,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 80°C or less.
- ** Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



SPECIFICATION FOR CHARGER (Option function)

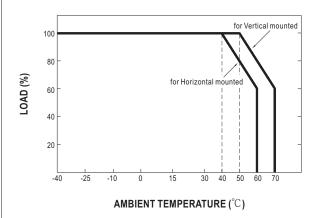
		,					
MODEL		HEP-2300-55					
BOOST CHARGE VOLTAGE Vboost		57 6V					
	FLOAT CHARGE VOLTAGE Viloat						
	RECOMMENDED BATTERY	00.2 V					
OUTPUT	CAPACITY(AMP HOURS)(Note 2)	120 ~ 400AH					
	BATTERY TYPE	Open & Sealed Lead Acid					
	OUTPUT CURRENT (max.)	40A					
	VOLTAGE RANGE Note 3	90 ~ 305VAC 250 ~ 431VDC					
	FREQUENCY RANGE	47 ~ 63Hz	F>0.99/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load				
	POWER FACTOR (Typ.)	PF>0.99/115VAC, PF>0.95/230VAC, PF>0					
INPUT	EFFICIENCY (Typ.)	95.5%					
	AC CURRENT (Typ.)	13.3A / 115VAC 11A / 230VAC 9.	3A / 277VAC				
	INRUSH CURRENT(Typ.)	Cold start 60A at 230VAC					
	LEAKAGE CURRENT	<1.8mA Peak / 240VAC <2mA Peak /	277VAC				
	SHORT CIRCUIT	Constant current limiting, unit will shutdow	n after 5 sec, re-power on to recover.				
		59 ~ 69.1V					
PROTECTION	OVER VOLTAGE	Protection type :Shut down O/P voltage,re-	-power on to recover				
	OVER TEMPERATURE	Shut down O/P voltage, recovers automation					
	REMOTE ON/OFF CONTROL	• •	: Open circuit				
FUNCTION	AUXILIARY POWER	12V @ 0.5A tolerance ±10%, ripple=150m	Vp-p				
	DC-OK SIGNAL	- 11	5.5V; PSU turn off = -0.5 ~ 0.5V. Please re	fer to the Function Manual			
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")	,				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensing	a				
LINVINONIILINI	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION						
	SAFETY STANDARDS		20 ~ 500Hz, 10G 12min./1cycle, period for 72min. each along X, Y, Z axes				
	WITHSTAND VOLTAGE Note 4	UL62368-1,TUV BS EN/EN62368-1, EAC TP TC 004 approved; design refers to BS EN/EN61558-1, BS EN/EN60335-1(by request) OVC III I/P-O/P: 6KVDC I/P-FG:4KVDC O/P-FG:4KVDC					
	ISOLATION RESISTANCE Note 4						
	ISOLATION RESISTANCE Note 4	Parameter	Standard	Test Level / Note			
		Conducted	BS EN/EN55032 (CISPR32)	Class B			
	EMC EMISSION	Radiated	BS EN/EN55032 (CISPR32)	Class A			
	EINIC EINII 2210 IN	Harmonic Current	BS EN/EN61000-3-2	Class A			
SAFETY &		Voltage Flicker	BS EN/EN61000-3-2	Class A			
EMC (Note.5)		BS EN/EN55024, BS EN/EN61000-6-2	B3 EIN/EIN0 1000-3-3				
(Note.5)		Parameter	Standard	Test Level / Note			
			BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact			
		ESD Particular					
		Radiated	BS EN/EN61000-4-3	Level 3			
	EMC IMMUNITY	EFT / Burst	BS EN/EN61000-4-4	Level 3			
		Surge	BS EN/EN61000-6-2	2KV/Line-Line 4KV/Line-Earth			
		Conducted	BS EN/EN61000-4-6	Level 3			
		Magnetic Field	BS EN/EN61000-4-8	Level 4			
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
	MTBF	478K hrs min. Telcordia SR-332 (Bellcore) ; 44.8K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	375*280*88mm (L*W*H), without mounting plate					
	PACKING	12.5Kg;1pcs/13.5Kg/1.33CUFT					
NOTE	 This is Mean Well's sugges Derating may be needed ur During withstandards voltag The power supply is consident a 1100mm*650mm metal please of the supplementation of the suppleme	lease refer to "EMI testing of component p .meanwell.com//Upload/PDF/EMI_stateme	nufacturer for their suggestions about max derating curve for more details. w "A" shall be temporarily removed, and s into a final equipment. All the EMC tests ar oment must be re-confirmed that it still mean owner supplies." ent_en.pdf) is and of 5°C/1000m with fan models for o ration when Tcase, particularly (to) point (co	imum charging current limitation. hall be istalled back after the testing. e been executed by mounting the unit on ets EMC directives. For guidance on how to perating altitude higher than 2000m(6500ft). or TMP, per DLC), is about 80°C or less.			





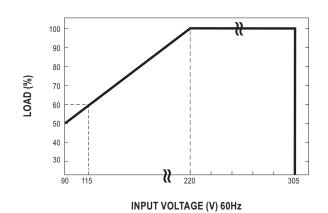
AUX POWER

■ DERATING CURVE



■ STATIC CHARACTERISTICS

& FILTER



-0 12V/0.5A

AUX POWER

DATA ISOLATION

CAN BUS(CANH/CANL)

O MOD BUS(DATA+/DATA-)

■ TABLE OF FUNCTION

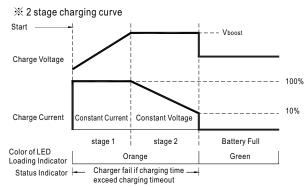
I/O TYPE	Function type	Power Supply Function		PV/PC Programmable	PMBus Protocol	CANBus Protocol		LED Indicator	Remote On/Off	DC-OK Signal	Temperature Compensation	12V/0.5A Aux. output	AC	T-Alarm OK Signal
Terminal	Blank	V(default)	V	٧		V		٧	V	٧	V	V		
type	PM	V(default)	V	٧	V			٧	V	V	V	V		
\A/::	Blank	V(default)		V				٧		٧		V		
Wiring type	PM	V(default)	V		٧			V		٧		V		
	CAN	V(default)	V			V		V		V		V		
	Blank	V(default)	V			V		٧	V	٧		V	V	V
Harness connector	PM	V(default)	V	·	٧			V	V	٧		V	V	V
	MOD	V(default)	V				V	V	V	V		V	V	V



■ FUNCTION MANUAL

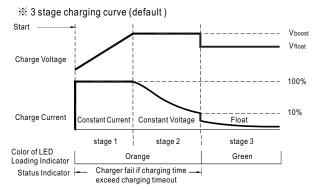
1.Charging Curve

- X By default, the HEP-2300 operates in power supply mode, and it can be configured to charger mode by PMBus, CANBus, MODBus, or SBP-001.
- X By factory default, this charger performs the default curve which can be programmed via PMBus, CANBus and MODBus.
- X To accommodate the parameters of the charging curve, SBP-001, the smart battery charging programmer designed by MEAN WELL, and a personal computer are needed. Please contact MEAN WELL for details.



State	HEP-2300-55
Constant Current	40A
Vboost	57.6V

© Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese).



State	HEP-2300-55
Constant Current	40A
Vboost	57.6V
Vfloat	55.2V

Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese).

2. Front Panel LED Indicators & Corresponding Signal at Function Pins

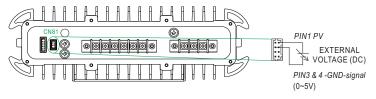
X LED Status Indicators

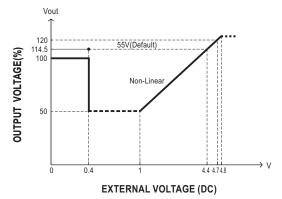
LED	Description	
Green	The power supply functions normally.	
Red	Abnormal status (Over temperature protection, Over load protection)	
Red (Flashing)	The LED will flash with the red light when the internal temperature reaches 95°C; under this condition, the unit still operates normally without entering OTP. (In the meantime, an alarm signal will be sent out through the PMBus/CANBus/MODBus interface.)	

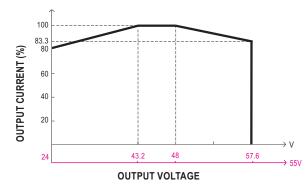
X LED Status Indicators (for Charger)

LED	Description
Green	Float (stage 3)
Orange	Charging (stage 1 or stage 2)
Red	Abnormal status (Over temperature protection, Over load protection, Charging timeout.)
Red (Flashing)	The LED will flash with the red light when the internal temperature reaches 95°C; under this condition, the unit still operates normally without entering OTP. (In the meantime, an alarm signal will be sent out through the PMBus/CANBus/MODBus interface.)

3.Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim) ※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed by applying EXTERNAL VOLTAGE.





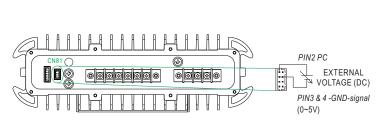


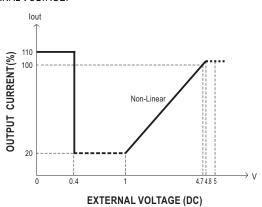
The 100% output voltage is 48V.

The rated current should change with the Output Voltage Programming accordingly.



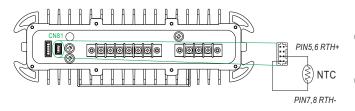
4. Output Current Programming (or, PC / remote current programming / dynamic current trim)





- When external voltage <0.4V the 100% output current will be default current.</p>

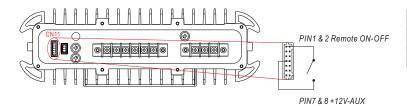
5. Temperature Compensation



- To exploit the temperature compensation function, please attach the temperature sensor, NTC, which is enclosed with the charger, to the battery or the battery's vicinity.
- The charger is able to work normally without the NTC.

6.Remote ON-OFF Control

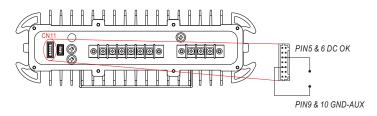
The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.



Remote ON-OFF	Power Supply Status
Short circuit	ON
Open circuit	OFF

7.DC-OK Signal

DC-OK signal is a TTL level signal. The maximum source current is 10mA and the maximum external voltage is 5.5V.



DC-OK signal	Power Supply Status
"High" >4.4~5.5V	ON
"Low" <-0.5~0.5V	OFF

8. CANBus Communication Interface

HEP-2300 supports CANBus Rev. 2.0B with maximum 250KHz bus speed, allowing information reading, status monitoring, output trimming, etc. For details, please refer to the User's Manual.

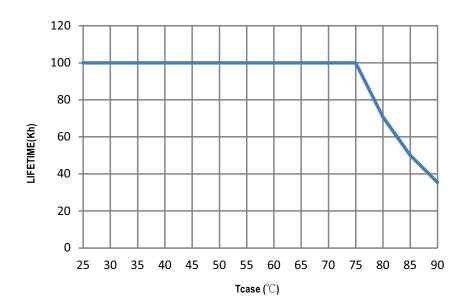
9.AC FAIL SIGNAL

Dry contact output, Open: alarm; Closed: normal.

10.OTP SIGNAL

Dry contact output, Open: normal; Closed: alarm.

■ LIFETIME

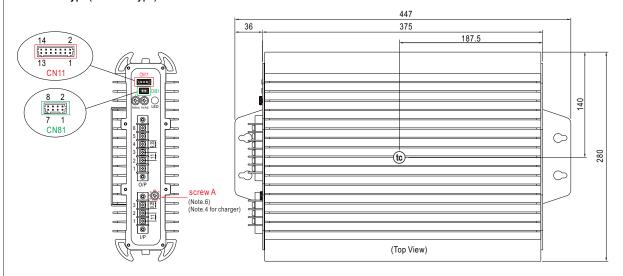


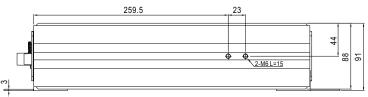


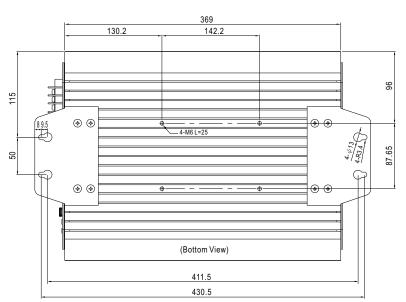
■ MECHANICAL SPECIFICATION

(Unit: mm , tolerance ± 1 mm)

Case No. 293A ※Blank-Type (Terminal type)







- $\frak{\%}$ Output voltage current level can be adjusted through internal potentiometer. (Vo Adj.) (Can access by removing the rubber stopper on the case.)
- PMBus interface address selection. (Address)

AC Input Terminal Pin No. Assignment

/ to imput	. O
Pin No.	Assignment
1	FG 🖶
2	AC/L
3	AC/N

DC Output Terminal Pin No. Assignment

Pin No.	Assignment
1,2,3	+V
4,5,6	-V



2300W Switching Power Supply for Harsh Environment

HEP-2300 series

 $\label{lem:control} \ref{eq:controlPinNo.Assignment} (CN81): JST~S8B-PHDKS-B~or~equivalent$

8	2
7	1

Mating Housing	JST PHDR-8VS or equivalent
Terminal	JST SPHD-001T-P0.5 or equivalent

Pin No.	Function	Description
1	PV	Connection for output voltage programming.(Note)
2	PC	Connection for constant current level programming.(Note)
3,4	GND (Signal)	Negative output voltage signal.
5,6	RTH+	Temperature sensor(NTC, 5KOhm) comes along with the charger can be connected to the unit to allow temperature
7,8	RTH-	compensation of the charging voltage.

Note: Non-isolated signal, referenced to [GND(signal)].

※Control Pin No. Assignment(CN11): JST S14B-PHDKS-B or equivalent

14	2
::::	:::;j
13	1

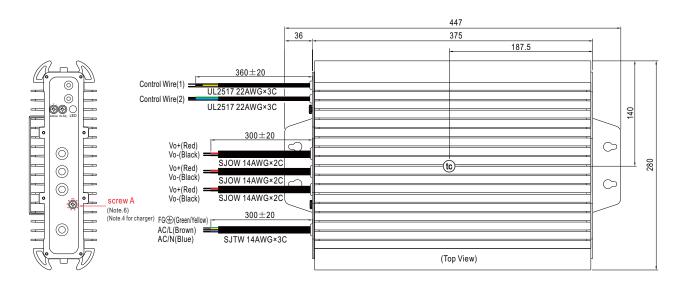
Mating Housing	JST PHDR-14VS or equivalent
Terminal	JST SPHD-001T-P0.5 or equivalent

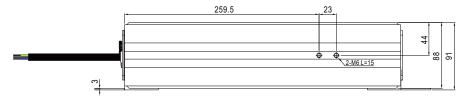
Pin No.	Function	Description	
1.0	Remote	The unit can turn the output ON/OFF by dry contact between Remote ON/OFF and +12V-AUX.(Note)	
1,2	ON-OFF	Short (10.8 ~ 13.2V): Power ON; Open(0 ~ 0.5V): Power OFF; The maximum input voltage is 13.2V	
3,4,13,14	NC		
		Low (-0.5 ~ 0.5V) : When Vout \leq 77% \pm 6% at power mode. Vout \leq 66% \pm 6% at charger mode.	
5,6	DC-OK	High (4.4 ~ 5.5V) : When Vout \ge 80% \pm 6% at power mode. Vout \ge 67% \pm 6% at charger mode.	
		The maximum sourcing current is 10mA and only for output.(Note)	
7,8	+12V-AUX	Auxiliary voltage output, 10.8~13.2V, referenced to GND-AUX (pin9 & 10).	
7,0		The maximum load current is 0.5A. This output is not controlled by "Remote ON-OFF".	
9,10	GND-AUX	Auxiliary voltage output GND.	
9,10	GND-AUX	The signal return is isolated from the output terminals (+V & -V).	
SDA For PMBus model: Seri		For PMBus model: Serial Data used in the PMBus interface. (Note)	
11	CANH	For CANBus model: Data line used in CANBus interface. (Note)	
12	SCL	For PMBus model: Serial Clock used in the PMBus interface. (Note)	
12	CANL	For CANBus model: Data line used in CANBus interface. (Note)	

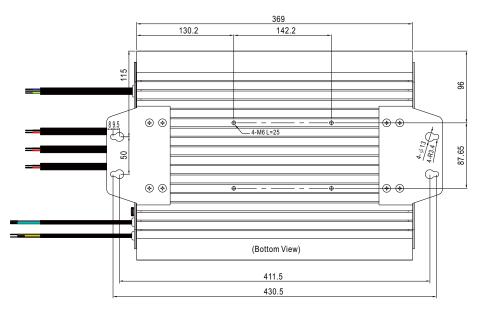
Note: Isolated signal, referenced to GND-AUX.



₩W-Type (Wiring type)







%Control Wire Assigment(1) : UL2517 22AWG \times 3C

	Control Wild Action (1): 0220 W 227W 37 Co		
Color	Function	Description	
		Low (0 ~ 0.5V) : When Vout \leq 77% \pm 6% at power mode. Vout \leq 66% \pm 6% at charger mode.	
Brown	DC-OK	High (4.4 ~ 5.5V) : When Vout \ge 80% \pm 6% at power mode. Vout \ge 67% \pm 6% at charger mode.	
		The maximum sourcing current is 10mA and only for output. (Note.2)	
Auxiliary voltage output, 10.8~13.2V, referenced to GND-AUX.		Auxiliary voltage output, 10.8~13.2V, referenced to GND-AUX.	
Yellow	+12V-AUX	The maximum load current is 0.5A.	
Black	GND-AUX	Auxiliary voltage output GND.	
ыаск	GND-AUX	The signal return is isolated from the output terminals (+V & -V).	

 $Note 1: Non-isolated \ signal, \ referenced \ to \ [GND (signal)].$

Note2: Isolated signal, referenced to GND-AUX (GND for CANBus and PMBus protocal).



2300W Switching Power Supply for Harsh Environment

HEP-2300 series

ightarrow Control Wire Assigment(2) : UL2517 22AWGimes3C for Blank

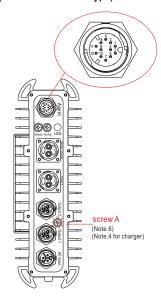
Color	Function	Description
Green	PV	Connection for output voltage programming.(Note1)
Blue	PC	Connection for constant current level programming.(Note.1)
White	GND (Signal)	Negative output voltage signal.(PV/PC GND)

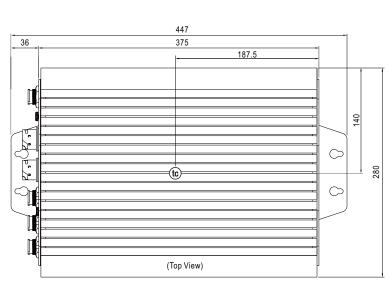
$\% Control\,Wire\,Assignment(2): UL2517\,22AWG\times 3C\,for\,PM/CANBus\,Function$

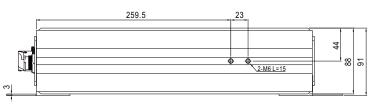
Color	Function	Description	
Green SDA For PMBus model: Serial Data used in the PMBus interface. (Note.2)		For PMBus model: Serial Data used in the PMBus interface. (Note.2)	
Green	CANH	For CANBus model: Data line used in CANBus interface. (Note.2)	
Blue	e SCL For PMBus model: Serial Clock used in the PMBus interface. (Note.2) CANL For CANBus model: Data line used in CANBus interface. (Note.2)		
Diue			
White	ite GND-AUX Auxiliary voltage output GND.		
vviile	GIND-AUX	The signal return is isolated from the output terminals (+V & -V).	

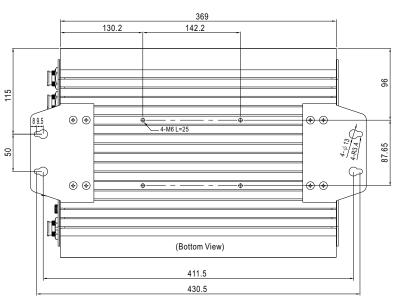


ightarrow H-Type (Harness connector type)









AC Input



Max. 20A

AC Input Pin No. Assignment: ALTW CC-03PMMS-QC800P or equivalent

Pin No.	Assignment	Mating connector
1	AC/L	00 000554 010400
2	FG 🖶	CC-03BFFA-QL8APP or equivalent
3	AC/N	or oquivalent

Output 1



Max. 20A

Max. 20A

DC Output 1,2 Pin No. Assignment: ALTW CC-03PMFS-QC800P or equivalent

Pin No.	Assignment	Mating connector
1,3	+V	CC-03BFMA-QL8APP
2	-V	or equivalent

Output 3



Battery Charger

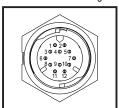
DC Output 3, Battery Charger Pin No. Assignment: ALTW PWM-02RMFS-TS7001 or equivalent

Pin No.	Assignment	Mating connector
1	+V	PWM-02BFMB-TL7001
2	-V	or equivalent



2300W Switching Power Supply for Harsh Environment

HEP-2300 series



Mating connector CD-12BFFA-QL8AP0 or equivalent

Alarm and signal

Pin No.	Function	Description			
1	DC-OK-GND	Dry contact output. Open: alarm, Closed: normal.			
2	Remote ON-OFF	The unit can turn the output OFF by dry contact between OFF and GND-AUX.(Note)			
		Short (10.8 \sim 13.2V): Power ON; Open(0 \sim 0.5V): Power OFF; The maximum input voltage is 13.2V			
3	DC-OK	Dry contact output. Open: alarm, Closed: normal. Relay contact rating(maximum) is 30V/1A resistive.			
4	+12V-AUX	Auxiliary voltage output, 10.8~13.2V, referenced to GND-AUX (pin9 & 10).			
4		The maximum load current is 0.5A. This output is not controlled by "Remote ON-OFF".			
5,7	GND-AUX	Auxiliary voltage output GND.			
		The signal return is isolated from the output terminals (+V & -V).			
6	AC Fail-GND	Dry contact output, Open: alarm; Closed: normal.			
8	AC Fail	Dry contact output, Open: alarm; Closed: normal. Relay contact rating(maximum) is 30V/1A resistive.			
9	T-Alarm-GND	Dry contact output, Open: normal; Closed: alarm. (OTP signal)			
	SDA	For PMBus model: Serial Data used in the PMBus interface. (Note)			
10	CANH	For CANBus model: Data line used in CANBus interface. (Note)			
	Data +	For RS-485 model: Data +.			
11	T-Alarm	Dry contact output, Open: normal; Closed: alarm. (OTP signal) Relay contact rating(maximum) is 30V/1A resistive.			
	SCL	For PMBus model: Serial Clock used in the PMBus interface. (Note)			
12	CANL	For CANBus model: Data line used in CANBus interface. (Note)			
	Data -	For RS-485 model: Data			

Note: Isolated signal, referenced to GND-AUX.



■ Accessory List

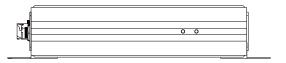
※ Optional equipment

Optional equipment MW's Order No.		Quantity	
PGG2BKT-001 (For housing side)	1	+ M6 L=16*2	1
PGG2BKT-002 (For pole side)	2	+ M6 L=16*2	1
PGG2BKT-003	3	M6 L=25*4	1
PGG2BKT-004	4	x 2 + M6 L=12*4	1
PFF1ZAHB-A0025(A)	(5)	Waterproof connector cap for AC, output 1/2 and alarm signal.	1
PFF1CAP-WACMQMA1(B)	6	Waterproof connector cap for output 3 and Battery charger.	1

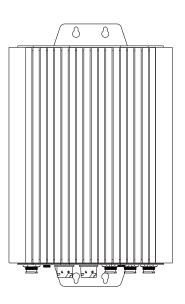


■ Mounting Methods

1.Mounting plate (Standard type)



Horizontal mounted



Vertical mounted

2.Pole mounted with a bracket kit (Optional type)

© Rear mounted (Optional Bracket Part No:PGG2BKT-003 \ PGG2BKT-004)

