

■ Features:

- Pure sine wave output (THD < 2.5%) to operate
- Intelligent software for power management
- Loading and temperature controlled cooling fan
- Remote management and control
- Turbo Mode Continuous 120% O/P Power
- RS-232 communication
- Dry contact terminal
- Efficiency Max. 94%
- ECO Mode stand by < 1W
- Advanced Protection Features
 - Input over/under voltage protection
 - Internal over temperature protection
 - Input reverse polarity protection (AUTO - RECOVERY)
 - Output overload protection



MODEL		ASP-0700	ASP-1000	ASP-1500	ASP-2000	ASP-3000
OUTPUT	Rated Power	700W	1000W	1500W	2000W	3000W
	Surge Power	1400W	2000W	3000W	4000W	6000W
	Turbo Mode Power	840W	1200W	1800W	2400W	3600W
	Output voltage range(AC)	100V / 110V / 115V / 120V ± 3% 200V / 220V / 230V / 240V ± 3%				
	Crest factor at nominal power	>3				
	Efficiency (Max.)	min : 90% max : 93%	min : 91% max : 94%	min : 91% max : 94%	min : 91% max : 94%	min : 91% max : 94%
	Frequency range	50 / 60 Hz*				
	Frequency accuracy	± 0.03%				
	THDv (resistive load)	≤ 2.5%**				
INPUT	Voltage range (DC)	10-17.2V / 12V*** 20-34.4V / 24V**** 40-68.8V / 48V*****				
	No Load Current	<1.3A @12V <0.65A @24V <0.4A @48V	<1.6A @12V <0.8A @24V <0.4A @48V	<1.8A @12V <0.95A @24V <0.5A @48V	<1.85A @12V <1.1A @24V <0.5A @48V	<2.8A @12V <1.5A @24V <0.7A @48V
	ECO Mode	<1W				
	FUSE	35Ax3 / 12V 20Ax3 / 24V 25Ax1 / 48V	35Ax4 / 12V 20Ax4 / 24V 25Ax2 / 48V	35Ax6 / 12V 20Ax6 / 24V 25Ax2 / 48V	35Ax8 / 12V 20Ax8 / 24V 25Ax4 / 48V	35Ax3 / 12V 20Ax3 / 24V 25Ax1 / 48V

NOTE

* Dip Switch Selectable
 ** Nominal voltage * 1.15 @110V/230V Rated Power

*** Battery High Voltage Protection default 16V
 **** Battery High Voltage Protection default 32V
 ***** Battery High Voltage Protection default 64V

Pure Sine Wave Inverter ASP Series



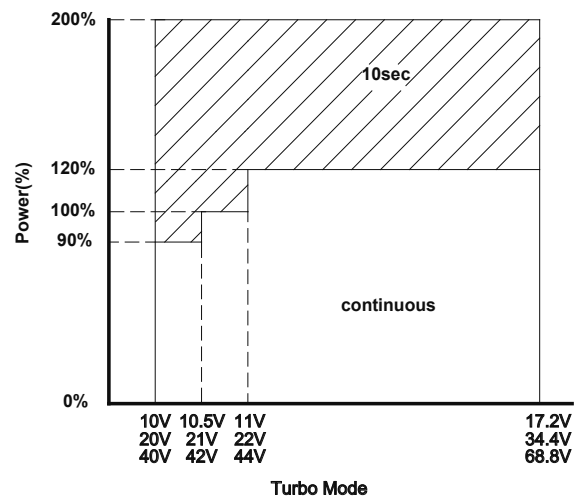
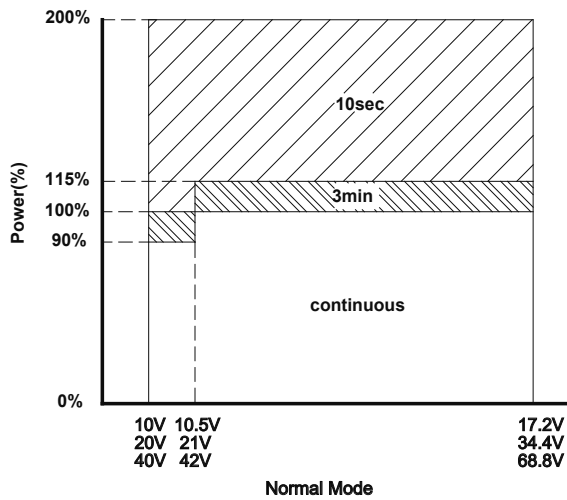
MODEL		ASP-0700	ASP-1000	ASP-1500	ASP-2000	ASP-3000
Signal & Control	Display	Synoptic LED				
	Supervision	Use optional devices				
	Failure Indication	LED & Buzzer alarm & Dry Contacts				
Protection	DC Input protection	Over / Under Voltage, Reverse Polarity				
	Output protection	Short-Circuit, Overload, Over Temperature				
Environment	Operating Temperature	- 20 ~ 60 °C*****				
	Storage Temperature	- 30 ~ 70 °C				
	Relative humidity	95% , non condensing				
Safety & EMC	Safety Standards	100V / 110V / 115V /120V : Meet UL458***** 200V / 220V / 230V /240V : Meet EN62368				
	EMC Standards	100V / 110V / 115V /120V : Certified FCC Part 15 Class B 200V / 220V / 230V /240V : Certified CE EN 55032:2015/AC:2016 Class B, EN 61000-3-2:2014 EN 61000-3-3:2013, EN 55024:2010/A1:2015				
	E-mark	200V / 220V / 230V /240V : Certified CISPR 25; ISO 7637-2				
Weight & Dimensions	Dimension (WxHxD)	222x88.9x210mm	222x88.9x250mm	222x88.9x300mm	222x88.9x375mm	222x88.9x455mm
	Weight	2.5KG	3.3KG	3.9KG	5.3KG	6.2KG

NOTE

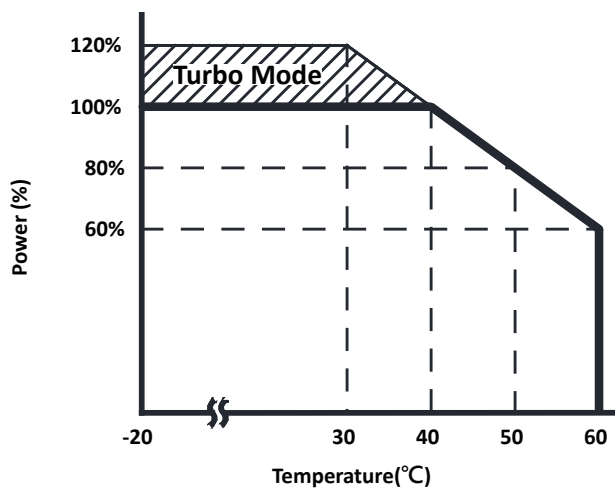
Derating begin 40°C to 60°C
GFCI Receptacles

■ Power Manipulate Range

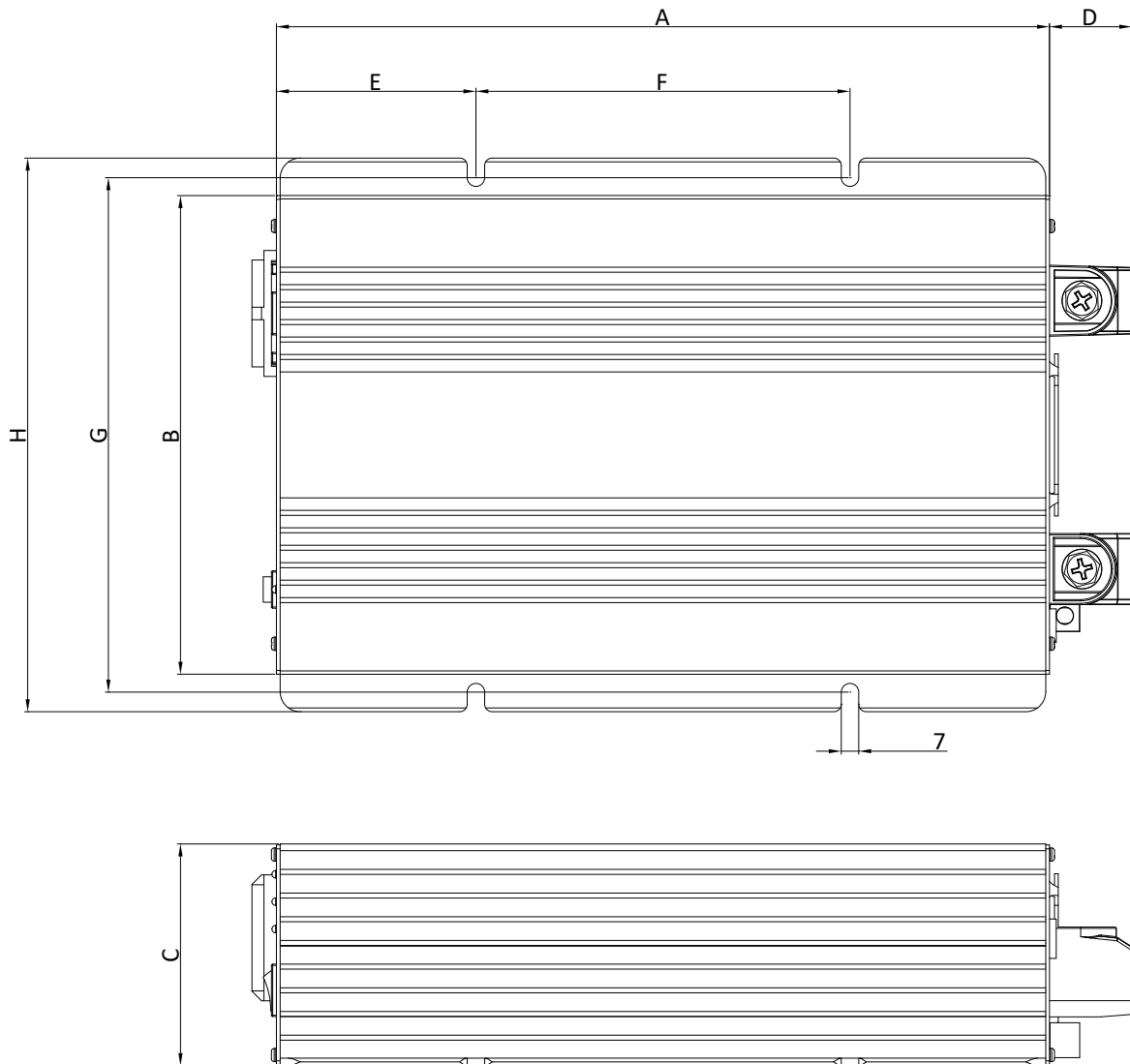
Mode Power Curve



Power Derating Curve



■ Appearance and Dimension



Model	A \pm 1.0	B \pm 1.0	C \pm 0.5	D \pm 0.5	E \pm 0.5	F \pm 0.5	G \pm 1.0	H \pm 1.0
ASP-0700	210	192	88.9	33	50	110	206.5	222
ASP-1000	250	192	88.9	33	50	150	206.5	222
ASP-1500	300	192	88.9	33	80	140	206.5	222
ASP-2000	375	192	88.9	33	80	215	206.5	222
ASP-3000	455	192	88.9	33	80	295	206.5	222

Unit:mm

■ LED Indicators:

STATUS System status light



BAT. Battery status light

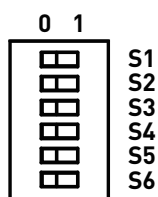


LOAD Load status light



LED Indicators		STATUS	BAT.	LOAD
Green Light				
Light Continuously	<div></div>	Normal	Normal	Loads 0% ~ 104%
Flash Slowly	<div></div>	Standby		ECO Mode
Flash Quickly	<div></div>			Turbo Mode Loads 104% ~ 120%
Orange Light				
Light Continuously	<div></div>		Low Voltage	Loads >104%
Flash Quickly	<div></div>		High Voltage Alarm	
Flash Slowly	<div></div>		Low Voltage Alarm	
Red Light				
Light Continuously	<div></div>	VBUS Failure Overload 5 Times		Overload
Flash Quickly	<div></div>	Battery High Voltage Protection		
Flash Slowly	<div></div>	Battery Low Voltage Protection		
Flash Intermittently	<div></div>	Over Temperature		

■ DIP Switch



S1 and S2 : Output Voltage Setting Table

Output Voltage	S1	S2
200VAC	0	0
220VAC	1	0
230VAC	0	1
240VAC	1	1

※ General users recommend to enable

S3 : Output Frequency Select Table

Output Frequency	S3
50HZ	0
60HZ	1

S4 : ECO Mode Select Table

ECO Mode	S4
Disable	0
Enable	1

S5 : Turbo Mode Select Table

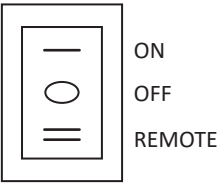
Turbo Mode	S5
Disable	0
Enable	1

S6 : DIP SWITCH Function Table

DIP Switch Setting	S6
Disable	0
Enable	1

Enabled: Product parameters (voltage, frequency, mode) will be set mainly by DIP SWITCH
 Disable: Product parameters (voltage, frequency, mode) will be controlled by communication settings (remote user)

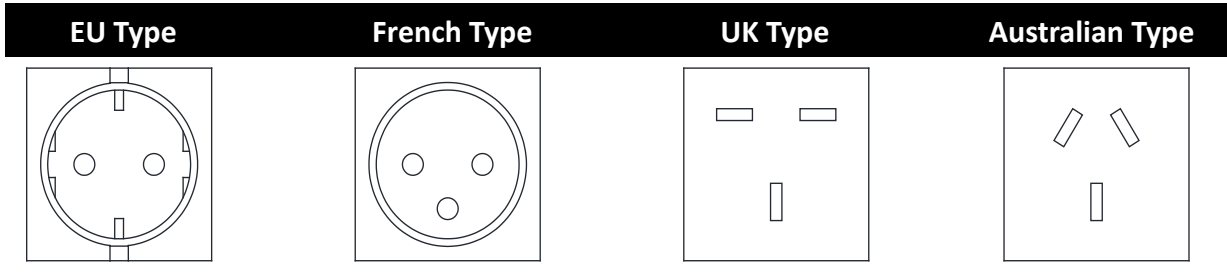
■ Main Switch



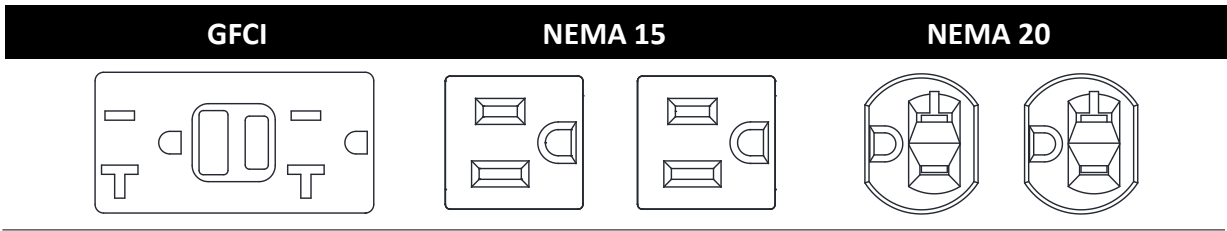
Location	Word	Function
I	ON	Start
0	OFF	Shunt down
II	Remote	Shunt down

■ OUTLET

200~240V System

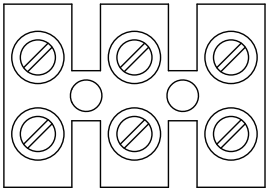


100~120V System



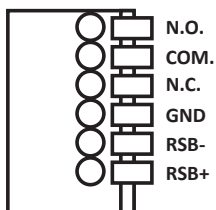
Hard Wire System

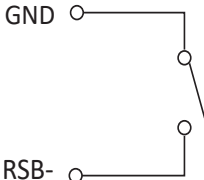
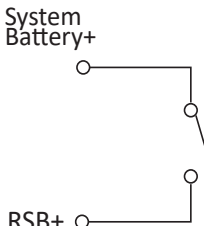
ASP-3000, ASP-2000 120V only



■ DRY Contact

Dry contacts and remote ON/OFF



Contact	Function	Wiring	Description
N.O. COM N.C.	Abnormal events such as overload, no output, short circuit	Switch power: 60W Rating: 2A @ 30VDC Wire size: 20~24AWG	Normal: N.O. – COM short Abnormal: N.C. – COM short
GND RSB-	Remote ON / OFF	Put switch between GND and RSB- Wire size: 20~24AWG 	Power ON: short Power OFF: open
RSB+		Put switch between battery+ and RSB+ Wire size: 20~24AWG 	Power ON: short Power OFF: open