

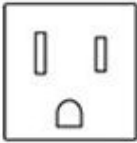

## Features

- Protecting the input reverse polarity by its internal circuit
- Fan-less quiet operation (natural convection)
- The wide range of operating temperature
- Switching output voltage/frequency easily by button
- Pure sine wave output
- Light weight and thin design
- High efficiency (90% efficiency at rated load)
- Built-in remote-control function
- Abundant protective circuit
- Buzzer ON/OFF, LED brightness switchable
- With low power mode and sleep mode setting
- Wide input voltage range
- Input terminal cover for dust prevention



## Specification

MODEL		GD300NA -112	GD300NA -124	GD300NA -148	GD300NU -212	GD300NU -224	GD300NU -248	
Input	Battery Voltage	12V	24V	48V	12V	24V	48V	
	Voltage Range*1	10.5~17Vdc	21~34Vdc	42~68Vdc	10.5~17Vdc	21~34Vdc	42~68Vdc	
	Current Range	20~32A	10~16A	5~8A	20~32 A	10~16 A	5~8 A	
	No-load Current*2 (Low power mode)	0,5A	0.3A	0.1A	0,7A	0.4A	0.2A	
	No-load Current*2 (Normal mode)	0.7A	0.4A	0.2A	0.8A	0.5A	0.3A	
	Standby Mode Consumption*2	8mA	7mA	5mA	7mA	7mA	4mA	
	Sleep Mode Consumption*2	2mA	4mA	3mA	2mA	4mA	3mA	
	Efficiency at Rated Load	90%						
Output	Rated Power	300VA						
	Peak Power (3min.)	360VA						
	Surge Power (3sec.)	420VA						
	AC Voltage (Switchable)	100 default /110/115/120Vac±3%				230 default /200/220/240Vac±3%		
	Frequency (Switchable)	50±0.1Hz default, 50/60Hz						
	Waveform	Sine Wave, <3%THD						
	Voltage Tolerance	±3.0%						
	LED indicators	Operating status, Battery voltage level, Output power level, Protection function, Operation setting						
Function	Remote-control	Output remote ON/OFF control terminal						
	Option terminal	six-position four-conductor (6P4C) modular jack						
Protection	Input	UVP*3, OVP*4, input reverse polarity						
	Output	OLP*5, SCP*6, output voltage error						
	Others	OTP*7, detect by internal temperature sensors						
Environment	Operating Temperature	-20~+40°C at rated load, +60°C at 70% load (Refer to De-rating Curve)						
	Operating Humidity	20~90%RH non-condensing						
	Storage Temperature/ Humidity	-30~+70°C, 10~95%RH						
	Vibration	10~500Hz, 3G 10min./ 1cycle, 60mins. XYZ axes						

<b>Safety &amp; EMC</b>	Safety Standards	Certified EN62368-1	
	Withstand Voltage	Battery I/P-AC O/P: 3.0kVac AC O/P-Ground: 1.5kVac Battery I/P- Ground : 1.5kVac	
	Isolation Resistance	Battery I/P- AC O/P: >1000MΩ/500Vdc/25°C/70% RH AC O/P -Ground: >1000MΩ/500Vdc/25°C/70% RH Battery I/P - Ground: >1000MΩ/500Vdc/25°C/70% RH	
	EMC Immunity	EN55024	
	EMC Emission	EN55032, FCC class A	EN55032
<b>Others</b>	Dimensions (L×W×H)	234.0×146.5×44.0mm	
	Weight	1.0kg	
	Socket Type	 NEMA 5-15R	 Universal

All parameters NOT specially mentioned are measured at 112/212: 12Vdc, 124/224: 24Vdc, 148/248: 48Vdc input, 300VA rated load, power factor=1.0, 25°C of ambient temperature and under the default setting.

\*1 Tolerance of voltage: 112/212: ±0.5V, 124/224: ±1V and 148/248: ±2V.

\*2 Average.

\*3 UVP: Under Voltage Protection.

\*4 OVP: Over Voltage Protection.

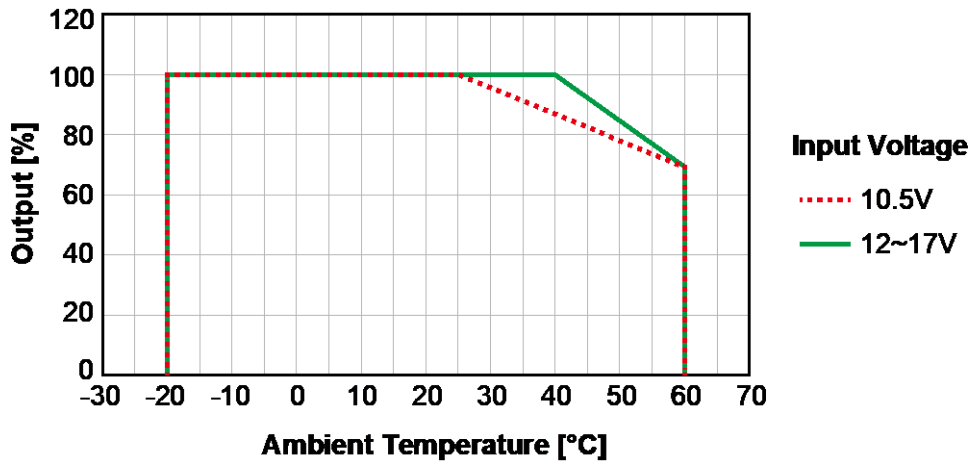
\*5 OLP: Over Load Protection.

\*6 SCP: Short Circuit Protection.

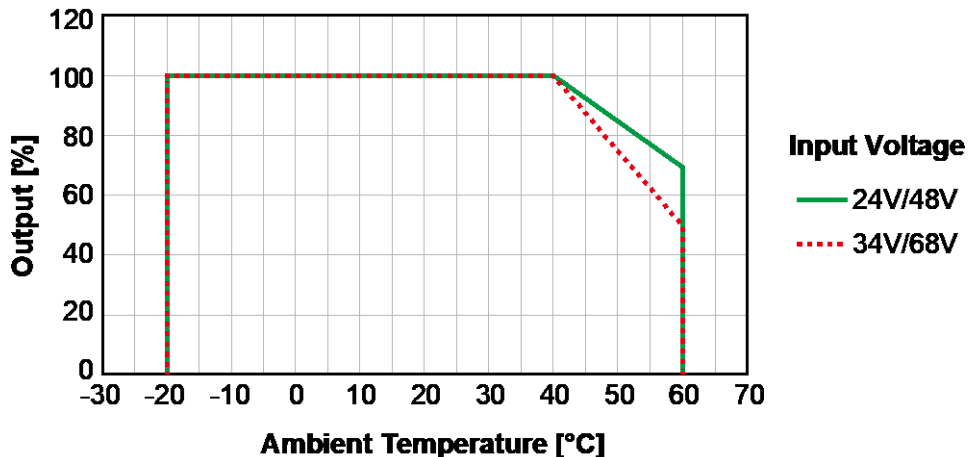
\*7 OTP: Over Temperature Protection.

## ■ ■ De-rating Curve

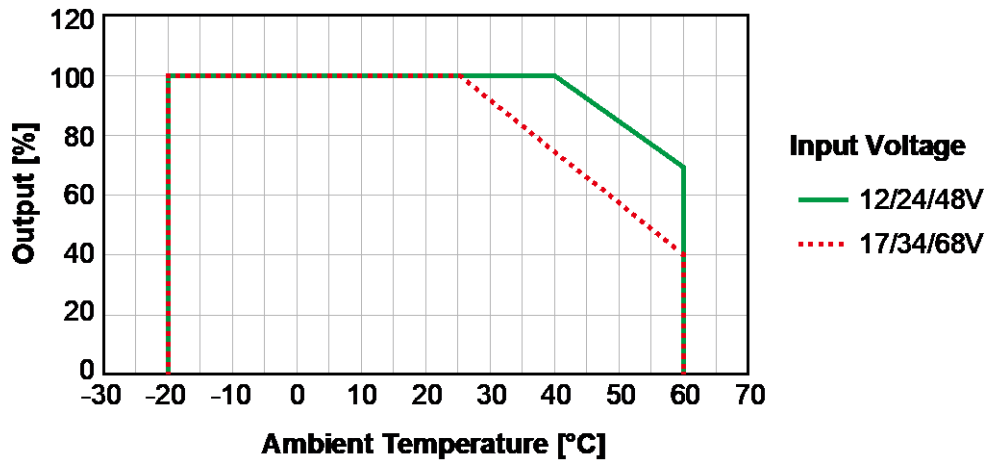
### • GD300NA-112



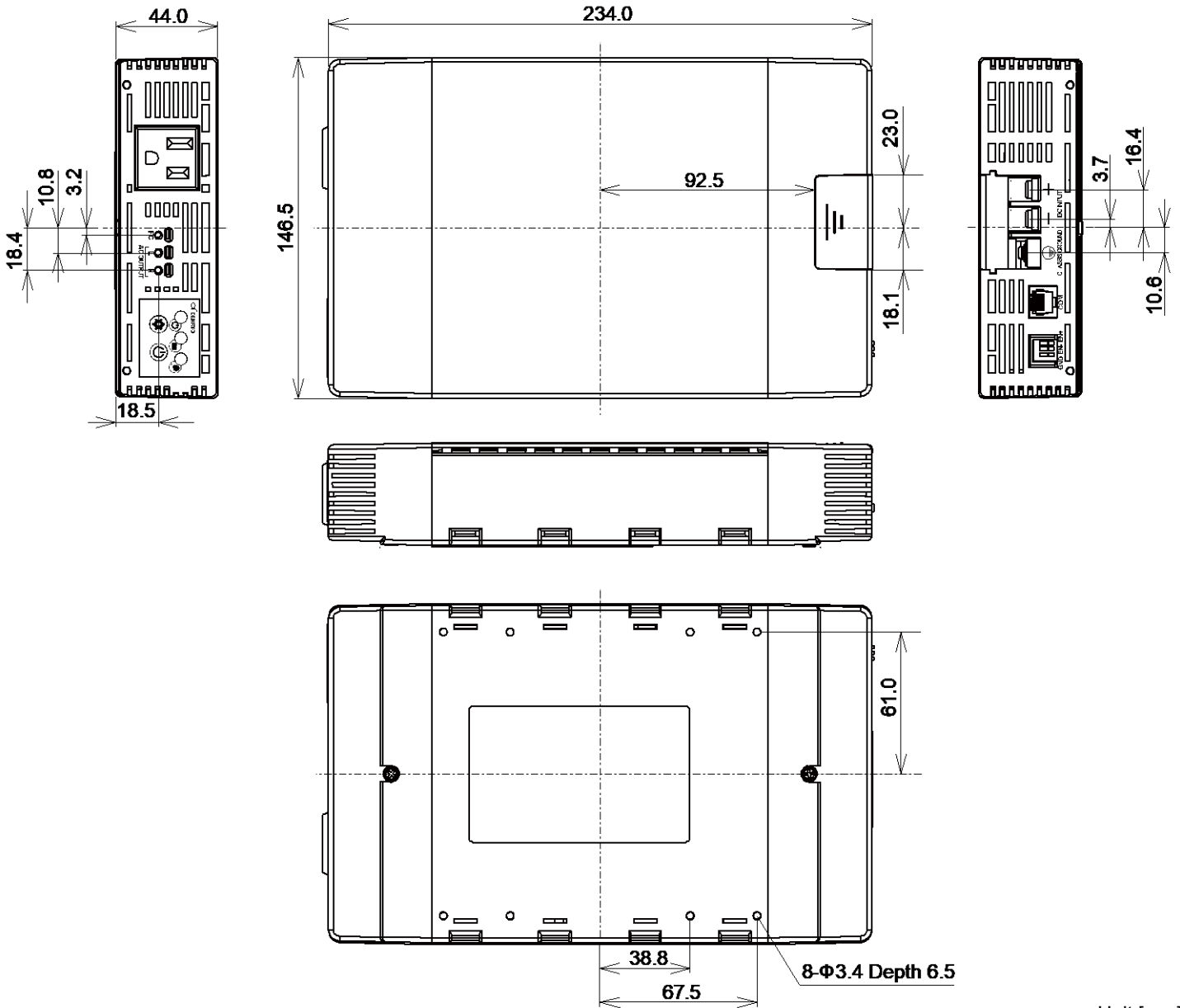
### • GD300NA-124/148



GD300NU-212/GD300NU-224/GD300NU-248



**■ Dimensions**



Unit [mm]