








Sine Wave Power Inverter

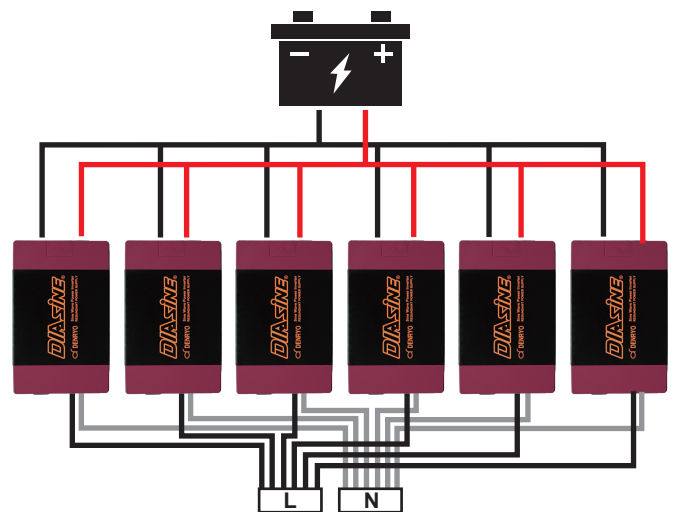
3-in-1U • Fanless Structure
Parallel connection without signal line



PATENTED **RoHS** **CE**

-  **Expandable Power System**
Up To 6 units (1.8kVA)
-  **N+1 Redundancy**
-  **Synchronous Control With**
Only AC Output Connection
-  **Wide Input Voltage Range**
-  **Fanless Structure**
-  **Reverse Polarity Protection**
Circuits For DC Input
-  **Settable Output Voltage**

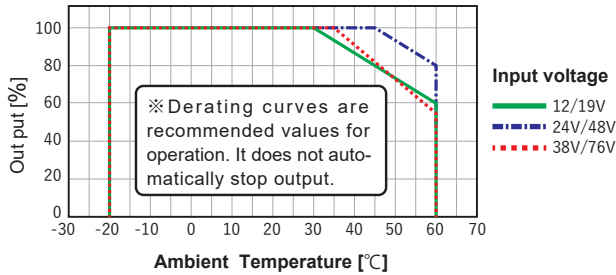
◆ System Diagram Example



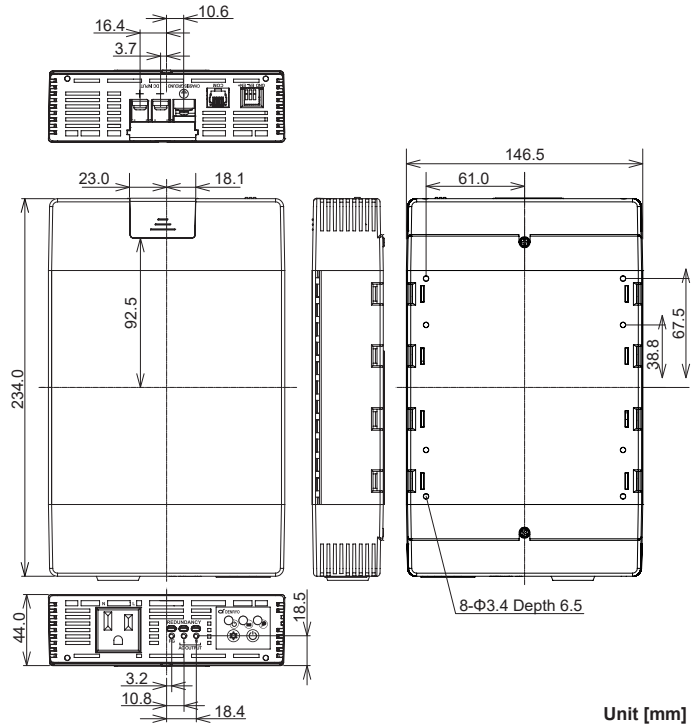
Connect the load's L and N to the coupled L and N cables.

Output Characteristics

12V models output 100% of their rating from -20 to +30°C, 24V/48V models from -20 to +45°C. For temperatures up to 60°C, 12V models can output 60% of their rating and 24V/48V models 80% of their rating.



Dimension



Unit [mm]

Option

■ Model : BR-1
DC parallel board for 3 units



■ Model : BR-2
DC input board for 1 unit



Specifications

Model	GR300NA-112	GR300NA-124	GR300NA-148
Input Battery Voltage	12V	24V	48V
Input Voltage Range*1	10.5 ~ 19.5Vdc	21 ~ 39Vdc	42 ~ 78Vdc
No-load Current (Output AC Current)*2	0.6A	0.2A	0.1A
No-load Current (AC Output disable)*2	0.3A	0.1A	<0.1A
Standby Mode Consumption*2	8mA	7mA	4mA
Sleep Mode Consumption*2	1mA	3mA	2mA
Efficiency at Rated Load	88%	89%	89%
Output Rated Power	300VA		
Output Peak Power (3min.)	360VA		
Output Surge Power (3 sec.)	420VA		
Output AC Voltage (switchable)	100(default)/110/115/120Vac		
Frequency (switchable)	50±0.5Hz(default)/60Hz		
Waveform	Sine wave, <3%THD		
LED Indicators	Operating status, Battery voltage/Output power level, Protection function, Operation setting		
Remote-control	Output remote ON/OFF control terminal		
Protection Circuits	UVP, OVP, input reverse polarity, OLP, SCP, output voltage error, OTP		
Safety Standards	EN62368-1		
EMC	EN55024, EN55032		
Withstand Voltage	Battery I/P-AC O/P: 3.0kVac, AC O/P-Ground: 1.5kVac, Battery I/P-Ground: 1.5kVac		
Isolation Resistance	>100MΩ/500Vdc/25°C/70% RH		
Vibration	10~500Hz, 3G 10min./ 1cycle, 60mins. XYZ axes		
Operating Temp.*3/Humidity	-20 ~ +30°C@Rated Load, +60°C@60%Load	-20 ~ +45°C@Rated Load, +60°C@80%Load / 20 ~ 90%RH	
Storage Temp./Humidity	-30 ~ +70°C/10 ~ 95%RH		
Dimension(W×H×D)	146.5×44.0×234.0 mm		
Weight	0.9kg		

※ All parameters NOT specially mentioned are measured at 12Vdc/24Vdc/48Vdc input voltage, rated load, power factor=1.0, 25°C of ambient temperature and under the default setting.

*1 Tolerance of voltage: 12: ±0.5V, 24: ±1V and 48: ±2V. *2 Average.

*2 Average *3 Please refer to the output characteristics graph

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