

SANUPS

PV INVERTER

P83C



SANYODENKI

High Efficiency PV INVERTER

SANUPS P83C (Grid-connected Type)

PV INVERTER



Input operating voltage range	Output voltage	Rated output	Output electrical system	Standard
DC440V to 840V	AC400V	100kW	3-phase 4-wire system	CE
DC340V to 700V	AC380V	100kW	3-phase 4-wire system	PV Inverter General Test in Korea

POINT 1 High Efficiency

Achieves a high efficiency of 97.8%.*



POINT 2 Space Saving

Required installation space is only 0.68m².



POINT 3 No component replacement necessary for 10 years

Long-life components relieve you of the bother of maintenance

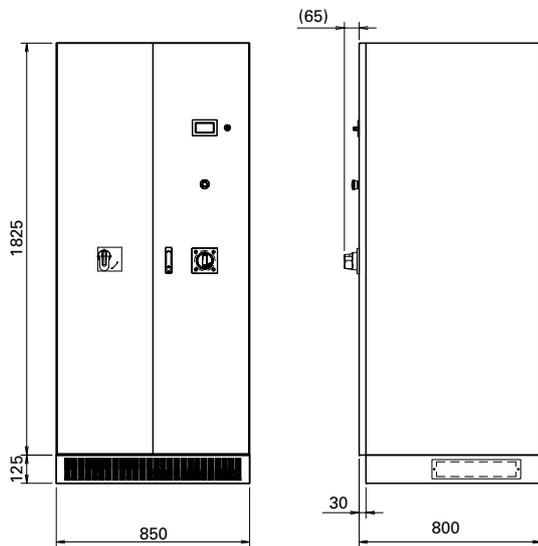
for **10 years**

*Model : P83C104RH

Specifications

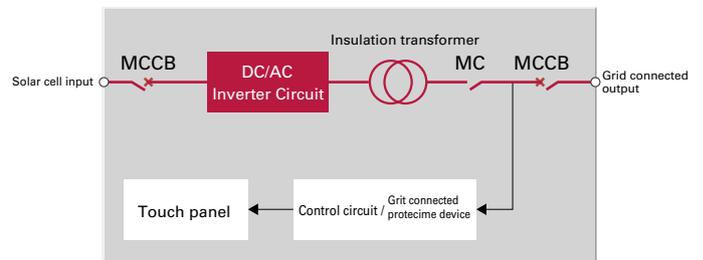
Item	Model	P83C104RH	P83C104RL	Remarks
		High voltage type	Low voltage type	
Rated output		100kW		
System	Main circuit type	Self commutation voltage type		
	Switching method	High frequency PWM		
	Electrical insulation method	Commercial frequency insulation transformer method		
DC Input	Maximum allowable input voltage	DC900V	DC750V	
	Input operating voltage range	DC440V to 840V	DC340V to 700V	
	Range of rated output voltage	DC450V to 840V	DC350V to 700V	
	Maximum power point tracking range	DC440V to 840V	DC340V to 700V	
AC Output	Output electrical system	3-phase 4-wire system		Neutral grounding
	Rated output Voltage	AC400V	AC380V	Line
	Rated output current	AC144A	AC152A	
	Rated frequency	50/60Hz		
	AC output current distortion factor	3%max.		Rated output current ratio
Conversion Efficiency	Output power factor	0.99min.		At rated output
	MAX Efficiency	97.8%	97.3%	
	EU Efficiency	96.7%	96.1%	
Grid connected protective function		Utility grid over voltage (OVR), Utility grid under voltage (UVR), Utility grid over frequency (OFR), Utility grid under frequency (UFR)		
Islanding operation detecting functions	Passive-type device	Voltage phase jump detection		
	Active-type device	Reactive power variation method		
External communications		RS485		
Environment	Installation place	Indoor		
	Ambient temperature	-20 to 50°C		When ambient temperatures are above +40°C, the output power is limited
	Relative humidity	15~90%		Non-condensing
	Altitude	2000m or less		
	Protection code	IP20		Option:IP21
Standard	Safety	EN 50178, IEC 62109-1, IEC 62109-2	—	
	EMC	EN 61000-6-2, EN 61000-6-4, EN 55011	—	
	Other	DIN VDE 0126-1-1	—	
	CE marking	Yes	—	
	PV Inverter General Test in Korea	—	Yes	
Other		Volume control		

Dimensions (mm)



Mass : 920kg

Circuit block diagram



Options

- Junction devices
- Weather signal conversion box
- Outdoor enclosure



■ ECO PRODUCTS

Sanyo Denki's ECO PRODUCTS are designed with the concept of lessening impact on the environment in the process from product development to waste. The product units and packaging materials are designed for reduced environmental impact. We have established our own assessment criteria on the environmental impacts applicable to all processes, ranging from design to manufacture. Those products that satisfy the criteria are accredited as ECO PRODUCTS.

Notes when investigating use of this product in your applications

- Before installation, assembling and use, read the "Operation Manual" carefully and use the product correctly pertaining to your applications.
- When you are going to use this product in the following applications, special considerations are required for operation, running, maintenance and control. Be sure to consult with our company.
 - (a) Medical equipment and other equipment that are related directly to human life.
 - (b) Train or elevator that can give injury to human body.
 - (c) Socially and publicly important computer systems.
 - (d) And other equipment that are related to safety of human life and that can affect severe effects on maintenance of public functions.
- For the applications that will experience vibrations such as vehicles, ships and transportation facilities, please consult our company.
- No product modifications, additional processing of this product is allowed.
- For the installation and maintenance work, please consult our company or with specialized, authorized companies.
- This product may be regulated under export and trade control regulations of each country. During export of each product, compliance to the export regulations of each country is highly recommended

For more information, please contact us from below.
(<http://www.sanyodenki.co.jp/contacts/mailform/product.html>)

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