



# Grid-Tied PV Inverter

DSP-M33250K(250W)  
DSP-M33500K(500W)  
DSP-M331000K(1MW)

## ADVANTAGES

- High Efficiency
  - All Irradiance Conditions by EMS (Energy Management System)
- Easy Capacity Expansion
- Longer Product Life
- Redundancy & High Reliability
- Cost Effective Production by Unit Modulization  
→ Easy Quality Control of Mass Production
- Easy Maintenance



DSP-M331000K

# Technical Data Three Phase

250KW, 500KW, 1MW



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Model	DSP-M33250K	DSP-M33500K	DSP-M331000K
<b>Input (DC)</b>			
Max DC power	275kW	550kW	1100kW
Max DC voltage	850V	850V	850V
PV-voltage range (MPPT)	450~820V(S.V:470V)		
Max input current	600A	1200A	2400A
Number of MPP trackers	1	1	1
Max number of parallel strings	-	-	-
<b>Output(AC)</b>			
Nominal AC output	250kW	500kW	1000kW
Max AC power	263kW	510kW	1020kW
Max output current	566A	1122A	2245A
Nominal AC voltage	270V		
AC grid frequency	50/60Hz		
AC connection	3phase		
<b>Efficiency</b>			
Max efficiency/Euro	97.3/96.5	97.2/96.5	97.2/96.7
<b>Protection devices</b>			
Input over voltage	0	0	0
AC short-circuit protection	0	0	0
Ground fault monitoring	0	0	0
Grid monitoring	0	0	0
Anti-islanding(IEEE1547)	0	0	0
Over Load	0	0	0
Over Heat	0	0	0
<b>General data</b>			
Dimension(W/H/D) in mm	1600 * 2155 * 1300	2400 * 2155 * 1300	4000 * 2155 * 1300
Weight	1200Kg	1800Kg	3200Kg
Operating temperature range	-20°C ~50°C		
Consumption:operating (standby)/night	<30W(20W)/X	<60W(30W)/X	<120W(40W)/X
Topology	Transformer-less		
Cooling concept	Forced air cooling		
Installation	Indoor(IP20)		
<b>Features</b>			
Display	LCD Character(English)		
Interface	RS232 or RS485		

## EMS operation (Energy Management System)

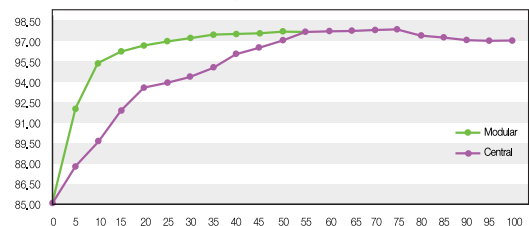


DC stack (250KWx4=1,000KW)

Depending on the Generation Power, DC stacks start to operate and stop working in consecutive order of stack numbers.

Nominal Power	No.1 Stack	No.2 Stack	No.3 Stack	No.4 Stack
Less 20%	●			
20~40%	●	●		
40~60%	●	●	●	
Over 60%	●	●	●	●

Efficiency Curve DSP-M331000K



Nominal Load	10%	20%	30%	40%	50%	60%	70%	80%	90%	30%
Modular	95.3	96.6	97.2	97.5	97.6	97.7	97.8	97.4	97.0	97.0
Central	89.6	93.5	94.3	96.0	97.0	97.7	97.8	97.4	97.0	97.0