

P O W E R  
- I N G ●  
T O M O -  
R R O W ●



Smart  
Photovoltaic  
Inverter  
Series



2023



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# SF 4000~12000 DV



- Low frequency inverter 120/240Vac Split Phase output
- Integrated MPPT charge controller
- Optional WIFI/ GPRS remote monitoring
- Built-in pure copper low frequency transformer
- Configurable grid or solar input priority
- Generator connection available



Datasheet	SF4000-DV	SF5000-DV	SF6000-DV	SF8000-DV	SF10000-DV	SF12000-DV
Battery Voltage	48VDC					
Battery Type	Lithium/Lead-acid					
<b>INVERTER OUTPUT</b>						
Rated Power	4KW	5KW	6KW	8KW	10KW	12KW
Surge Rating	12KW	15KW	18KW	24KW	30KW	36KW
Waveform	Pure sine wave/ same as input (bypass mode)					
Nominal Output Voltage RMS	104-110-115-120/208-220-230-240VAC(optional)					
Output Frequency	50Hz/60Hz +/-0.3 Hz					
Inverter Efficiency(Peak)	>85%					
Transfer Time	10ms(max)					
<b>SOLAR CHARGER</b>						
Maximum PV Charge Current	80A				120A	
Maximum PV Array Power	5000W				7000W	
Number of independent MPPT trackers/ strings per MPPT tracker	1/1				2/1	
MPPT Range @ Operating Voltage(VDC)	60~145VDC				60~145VDC	
Maximum PV Array Open Circuit Voltage	150VDC				150VDC	
Maximum Efficiency	>98%				>98%	
<b>AC INPUT</b>						
Voltage	240VAC					
Selectable Voltage Range	184~272VAC(UPS);154~272VAC(APL)					
Frequency Range	50Hz/60Hz (Auto sensing)					
Max. Charging Current	40A	50A	60A	70A	80A	100A
<b>MECHANICAL SPECIFICATIONS</b>						
Protection Degree	IP20/NEMA Type 1					
Dimensions (W/H/D)	360/540/218mm (14.2/21.3/8.6in)	360/540/218mm (14.2/21.3/8.6in)	360/540/218mm (14.2/21.3/8.6in)	380/650/225mm (15/25.6/8.6in)	380/650/225mm (15/25.6/8.6in)	380/650/225mm (15/25.6/8.6in)
Weight	42kg(92.6lb)	47kg(103.6lb)	52kg(114.6lb)	64kg(141.1lb)	66kg(145.5lb)	75kg(165.3lb)
<b>OPERATING ENVIRONMENT</b>						
Operation Temperature Range	0°C - 50°C(32°F- 122°F)					
Warranty	2 Years					
UL 1741						

# SF 6000~12000 DV-MP



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Datasheet	SF 6000 DV-MP	SF 12000 DV-MP
Battery Voltage	48VDC	
Battery Type	Lithium/Lead-acid	
<b>INVERTER OUTPUT</b>		
Rated Power	6KW	12KW
Surge Rating	18KW	36KW
Waveform	Pure sine wave/ same as input (bypass mode)	
Nominal Output Voltage RMS	104-110-115-120/208-220-230-240VAC(optional)	
Output Frequency	50Hz/60Hz +/-0.5 Hz	
Inverter Efficiency(Peak)	88%	
Transfer Time	10ms	
Maximum PV Charge Current	80A	120A
Maximum PV Array Power	5000W	7000W
Number of independent MPPT trackers/ strings per MPPT tracker	1/1	2/1
MPPT Range @ Operating Voltage(VDC)	60~245VDC	
Maximum PV Array Open Circuit Voltage	250V	
Maximum Efficiency	97%	
Voltage	240VAC	
Selectable Voltage Range	184~272VAC(UPS);154~272VAC(APL)	
Frequency Range	50Hz/60Hz (Auto sensing)	
Max. Charging Current	60A	100A
Protection Degree	IP20/NEMA Type 1	
Dimensions (W/H/D)	360/540/218mm (14.2/21.3/8.6in)	380/650/225mm (15/25.6/8.6in)
Weight	52kg(114.6lb)	75kg(165.3lb)
Operation Temperature Range	0°C - 50°C(32°F- 122°F)	
Altitude	<2000m(6561.6ft)	
Warranty	2 Years	
UL 1741		