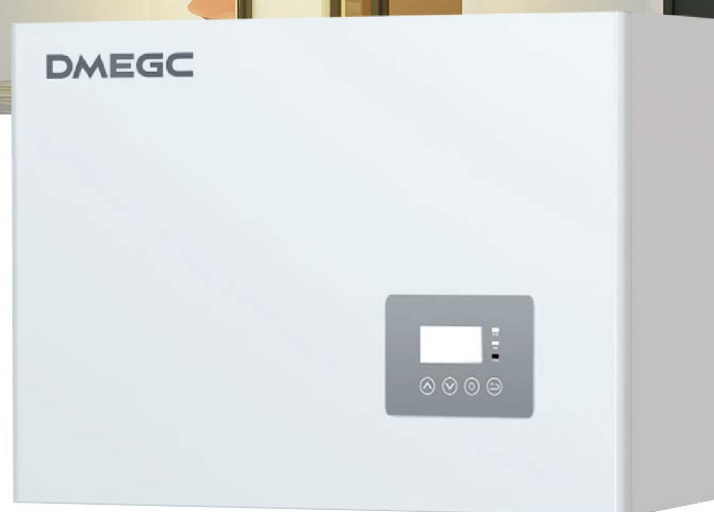


Single Phase HYBRID INVERTER

PRODUCT MODEL

- DM-INV-SPH3.6K
- DM-INV-SPB5K
- DM-INV-SPH5K



HIGH PERFORMANCE

- 200% PV over management;
- 200% backup overload capacity, 60A battery current;
- Max. efficiency 97%, Battery efficiency 95%;
- Load monitoring accuracy 10W, Battery discharging threshold 10W.



HIGH RELIABILITY

- UPS level redundant protection against backup load breakdown;
- Three-level firmware and two-level hardware battery protection;
- Multiple temperature monitoring, delicate thermal management;
- Max. 3 Inverters in parallel to increase power availability.



HIGH INTELLIGENCE

- Internal EMS optimizes home energy supply automatically;
- PV production forecast;
- Built-in electric power service, FCAS, VPP, etc;
- Online monitoring, online diagnosis, online service.

INVERTER MODEL	DM-INV-SPH3.6K	DM-INV-SPB5K	DM-INV-SPH5K
BATTERY PORT			
Battery Type	LFP (LiFePO ₄)		
Nominal Battery Voltage	96V		
Battery Voltage Range	80~450V		
Max. Charging/Discharging Current	60A/60A		
DVC	DVC-C		
Back Feed Current	60A		
Overvoltage Category	II		
PV INPUT			
Max. PV Input Power	7.2kW	10kW	
Max. PV Input Voltage	580V	580V	
MPPT Range	100~550V	100~550V	
Startup Voltage	90V	90V	
Max. Input Current	15A / 15A	15A / 15A	
Max. Short Circuit Current	18.7A / 18.7A	18.7A / 18.7A	
MPPT Trackers	2	2	
Strings Per MPPT Tracker	1 / 1	1/1	
DVC	DVC-C		
Back Feed Current	0A		
Overvoltage Category	II		
GRID PORT			
Rated Output Apparent Power	3.6kVA	5kVA	5kVA
Max. Input Power	7.2kW	10kW	10kW
Rated Grid Voltage	230Vac		
Rated Grid Output Current	15.7A	21.7A	21.7A
Grid Voltage Range	180~270Vac		
Rated Grid Frequency	50/60Hz		
Power Factor	-0.8~+0.8		
THDi	<3%		
Protection Class	I		
Pollution Degree	II		
Overvoltage Category	III		
DVC	DVC-C		
Anti-islanding Protection Method	Frequency shift		
BACKUP PORT			
Max. Backup Power	3.6kW	5kW	5kW
Rated Backup Apparent Power	3.6kVA	5kVA	5kVA
Rated Backup Voltage	230Vac		
Rated Backup Output Current	15.7A	21.7A	21.7A
Rated Backup Frequency	50/60Hz		
THDv	<3%		
Transfer Time	10ms		
DVC	DVC-C		
Back Feed Current	37A		
Overvoltage Category	III		
EFFICIENCY			
Max. Efficiency	97%	97%	
Europe Efficiency	96.2%	96.2%	
GENERAL DATA			
Operating Temperature Range	-25°C~60°C		
Operating Altitude	3000m		
Cooling	Natural Convection		
Noise	<30dB		
Topology	Transformerless		
Dimensions (W*H*D)	590x405x205mm		
Protection Degree	IP65		
Weight	19.5kg	17.5kg	19.5kg
Warranty	120 months		
HMI&COMM.			
Communication With BMS	CAN		

INVERTER MODEL	DM-INV-SPH3.6K	DM-INV-SPB5K	DM-INV-SPH5K
Load Monitoring	Meter / CT		
External Communication	RS-485 / WIFI /Lan		
CERTIFICATE			
Grid Regulation	G98/G99, VDE-AR-N4105,EN 50549-1,VDE0126,RD1699,CEI0-21,C10/C11,NRS097-2-1 TOR Erzeuger, MEA,PEA, AS/NZS 4777.2		
CERTIFICATE			
Safety Regulation	IEC 62109-1&2, IEC 62477,IEC 62040-1,AS3100,NB/T32004		
EMC	EN 61000-6-1, EN 61000-6-3		

Note:
1. DM-INV-SPH(3.6-5)K/ DM-INV-SPB5K inverter is only compatible with the H02 battery of DMEGC(H02-10, H02-15, H02-20, H02-25, H02-30, H02-35, H02-40, H02-45, H02-50, H02-60).
2. Specifications are subject to change without advance notice.

Made In China