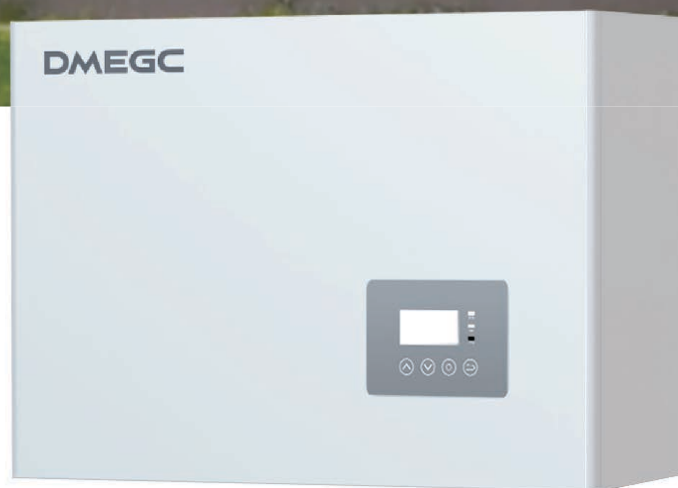


Three Phase HYBRID INVERTER



PRODUCT MODEL

- DM-INV-TPH4K
- DM-INV-TPH5K
- DM-INV-TPH6K
- DM-INV-TPH8K
- DM-INV-TPH10K



HIGH PERFORMANCE

- 200% PV over management;
- 200% backup overload capacity, 50A battery current;
- Max. efficiency 98%, 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-TPH4K	DM-INV-TPH5K	DM-INV-TPH6K	DM-INV-TPH8K	DM-INV-TPH10K
BATTERY PORT					
Battery Type			LFP(LIFE04)		
Battery Voltage Range			90~700Vdc		
Max. Charging/Discharging Current			50A/50A		
DVC			DVC-B&C		
Back Feed Current			60A		
Overvoltage Category			II		
PV INPUT					
Max. PV Input Power	8kW	10kW	12kW	16kW	20kW
Max. PV Input Voltage			1100V		
MPPT Range			140~950V		
Startup Voltage			85V		
Max. Input Current			16A / 16A / 16A		
Max. Short Circuit Current			24A / 24A / 24A		
MPPT Trackers			3		
Strings Per MPPT Tracker			1 / 1 / 1		
DVC			DVC-A		
Back Feed Current			0A		
Overvoltage Category			II		
GRID PORT					
Rated Output Apparent Power	4kVA	5kVA	6kVA	8kVA	10kVA
Rated Output Current	5.8A	7.2A	8.7A	11.6A	14.5A
Max. Output Current	6.7A	8.3A	10A	13.3A	16.7A
Max. Output Apparent Power	4.4kVA	5.5kVA	6.6kVA	8.8kVA	11kVA
Max. Input Apparent Power	8kVA	10kVA	12kVA	16kVA	20kVA
Rated Grid Voltage	220/380Vac, 230/400Vac, 3/N/PE				
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					
Surge Backup Power	8kVA	10kVA	12kVA	16kVA	20kVA
Rated Backup Apparent Power	4kVA	5kVA	6kVA	8kVA	10kVA
Rated Backup Voltage	220/380Vac, 230/400Vac, 3/N/PE				
Rated Backup Output Current	5.8A	7.2A	8.7A	11.6A	14.5A
Rated Backup Frequency	50/60Hz				
THDv	<3% (Linear Load) / <5% (Non-Linear Load)				
DCV	<100mV				
Crest Ratio	3 : 1				
Transfer Time	<10ms				
DVC	DVC-C				
Back Feed Current	37A				
Overvoltage Category	III				
EFFICIENCY					
Max. Efficiency	>97.8%	>97.8%	>97.8%	>98%	>98%
Europe Efficiency	>97.3%	>97.3%	>97.3%	>97.5%	>97.5%
GENERAL DATA					
Operating Temperature Range	-25~60°C				
Relative Humidity	0~95% (No Condensing)				
Operating Altitude	≤3000m				
Cooling	Natural Convection				
Noise	<30dB				
Topology	Transformerless				
Dimensions (W*H*D)	590x416x205mm				

INVERTER MODEL	DM-INV-TPH4K	DM-INV-TPH5K	DM-INV-TPH6K	DM-INV-TPH8K	DM-INV-TPH10K
GENERAL DATA					
Protection Degree				IP65	
Weight				29kg	
Warranty				120 months	
HMI&COMM.					
Communication With BMS				CAN / RS-485	
Load Monitoring				Meter /CT/ Backup box	
External Communication				RS-485 / WIFI / 4G / Ethernet	
User Interface				LED / LCD	
CERTIFICATE					
Grid Regulation	VDE-AR-N 4105:2018, G98, C10/11:2021, NTS 631, RD647:2020, UNE 217002:2020, CEI 0-21, VDE 0126-1-1, NRS 097-2-1, AS/NZS 4777.2:2020, EN 50549-1,Erzeuger Type A, PPDS, NCRfG				
Safety Regulation	IEC/EN 62109-1&2, IEC/EN 62477-1:2012				
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4				

Note:
1. DM-INV-TPH(4-10)K 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