



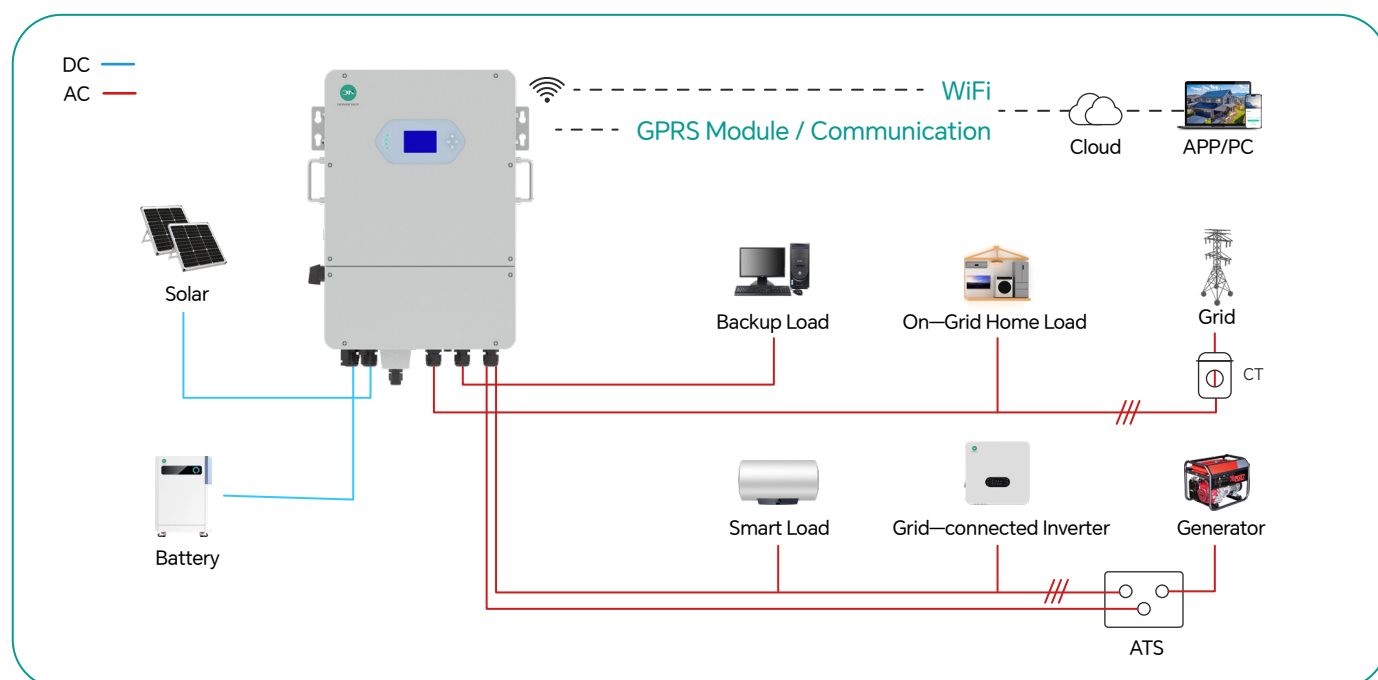
DONNERGY

DGH02-P3M10K-12K-EU

Three-phase hybrid inverter

Features

- Supports up to 12 units in parallel operation, meeting the demands of small-scale industrial and commercial energy storage applications.
- Grid-to-off-grid switching time is less than 10 ms, ensuring uninterrupted power supply to critical equipment.
- Allows configuration of up to 6 battery charging time periods and cut-off thresholds.
- Supports maximum power charging and discharging modes.
- Compatible with diesel generators for battery charging and load power supply.
- High system efficiency with intelligent air-cooling to prolong overall service life.
- Integrated communication interfaces including RS485, CAN, and WiFi (via App/PC Cloud monitoring).
- Smart load management, CT sensing, ATS support, and optional GPRS module for remote connectivity.



Technical Parameters / Model	DGH02-P3M10K-EU	DGH02-P3M12K-EU
Battery Input Data		
BatteryType	Lead-acid or Lithium-ion	
Battery Voltage Range (V)	40~60	
Max. Charging Current (A)	200	240
Max. Discharging Current (A)	200	240
External Temperature Sensor	yes	
Charging Curve	3 Stages / Equalization	
Charging Strategy for Li-Ion Batter	Self-adaptation to BMS	
PV String Input Data		
Max.DC input Power(W)	13000	15600
Rated PVInput Voltage (V)	550(160-800)	
Start-up Voltage (V)	160	
MPPT Voltage Range (V)	200-650	
Full Load DC Voltage Range (V)	350-650	
PV input Current(A)	26+13	
Max. PV Isc (A)	34+17	
No. of MPPT Trackers	2	
Number of Strings per MPPT Tracker	1+1	
AC input/Output Data		
Rated AC Output Active Power (W)	10000	12000
Max AC Output Active Power (w)	11000	13200
AC Input/Output Rated Current (A)	15.2/14.5	18.2/17.4
Max AC input/Output Current (A)	16.7/15.9	20/19.1
Max.Three-phase Unbalanced Output Current(A)	22.7/21.7	27.3/26.1
Max. Output short circuit current(A)	75	
Max.Continuous AC Passthrough(A)	45	
Peak Power (off grid)	2 time of rated power, 10 S	
Power Factor	0.8 leadingto 0.8 lagging	
Output Frequency and Voltage	50/60Hz;3L/N/PE 220/380Vac,230/400Vac	
Grid Type	Three Phase	
Total Harmonic Distortion (THDi)	<3% (of nominal power)	
DC Current Injection	<0.5% In	
Efficiency		
Max. Efficiency	97.60%	
Euro Efficiency	97.0%	
MPPT Efficiency	>99.0%	
Protection		
Anti-islanding Protection	Yes	
PV String Input Reverse Polarity Protection	Yes	
Insulation Resistor Detection	Yes	
Residual Current Monitoring Unit	Yes	
Output Over Current Protection	Yes	
Output Shorted Protection	Yes	
Surge Protection	Dc Type III / Ac Type III	
Over Voltage Category	Dc Type II / Ac Type III	
Certifications and Standards		
Grid Regulation	VDE4105,EC61727/62116,VDE0126,AS4777.2,CE10 21,EN50549-1,G98,G99, C10-11,UNE217002,NBR16149/NBR16150	
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2	
General Data		
OperatingTemperature Range (°c)	-40-60°C,>45°C Derating	
Cooling	Smart Cooling	
Noise(dB)	<50 dB	
Communication with BMS	RS485;CAN	
Monitor mode	WiFi,APP	
Net Weight (kg)	34	
CabinetSize(WxHxD mm)	680x440x255mm(Excluding Connectors and Brackets)	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 Years (10 Years Optional)	