WHERE THERE'S SUNSHINE

THERE'S DEMUDA

Guangzhou Demuda Optoelectronics Technology Co Ltd

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DEMUDA

CORE TECHNOLOGY

Core technology intelligent control the future

DEMUDA Intelligent Co., Ltd

HUMAN BEINGS ARE FREE BECAUSE OF SCIENCE AND TECHNOLOGY THE WORLD IS BEAUTIFUL BECAUSE OF GREEN

We focus on core technology innovation, provide professional technical support and solutions based on off-grid solar energy systems, continuously expand solar energy applications through continuous technological innovation, and lead the future of off-grid solar energy system applications. Whether it is household use or small and medium-sized industrial and commercial fields, they can better utilize solar energy resources, and to a certain extent help improve the energy structure and environment, and promote sustainable development.



DEMUDA OPTOELECTRONICS TECHNOLOGY

OFF-GRID SOLAR ENERGY SYSTEM CONTROL EXPERTS

EU CE, ROHS Standard Certification, ISO Quality Management System Certification Enterprise

Demuda was founded in 2011, is a pragmatic, passion, innovative new energy technology company. Our company is high-tech enterprises which focus on R&D and manufacturing off-grid solar system, on grid power station, household energy storage and inteligent energy management solutions. Won the EU CE, RoHS, certification, ISO quality management system certification enterprise, products have been widely used in the world.

The company is committed to the research and development, production and sales of solar inverters, controllers, energy storage solar products. We have a standardized production base of 35,000 meters, located in Guangzhou, Foshan, Anhui and other places. It aims to provide the world with high-performance and competitive new energy products and promote global green ecological energy.

OUR ADVANTAGE

MANUFACTURING BASE













High-tech Enterprise

20+

Well-established in PV industry

150+

Products cover countries and regions

256+

Won the national technology patents

35000+

Standardized manufacturing base

SERVICE COVERAGE

SERVICES COVER 150 COUNTRIES AND REGIONS AROUND THE WORLD

Demuda global service network covers the Middle East, Southeast Asia, East Asia, South Asia, Africa, Europe, North America, South America, Australia and so on.



DEVELOPMENT COURSE

DOWN-TO-EARTH INNOVATIVE AND REALISTIC

2004

Entering the new energy industry

2011

Guangzhou Demuda Optoelectronics Technology Co.,Ltd Established, Expand sales markets in Southeast Asia and the Middle East, Passed ISO9001quality system certification

2013

Completed 23 provinces and 5 autonomous regions of the country's exclusive agency, The industry's first CCTV hot brand



2014

Layout in Southeast Asia and the Middle East markets Passed the IS09001 interational quality management system

2017

Complete the deep excavation and consolidation of themarket,The Demeda brand was Established locally

2019

Completed the inverter - controller - charger solar lighting product layout
Shenzhen Demuda Technology Co., Ltd. was established

2021

Product sales exceeded 200w+ sets Achieve the controller network TOP1



2022

The year of the Demuda Gutian Conference







2023

2023 The turning year of the "Zunyi Conference" in the development history of Demuda

2024

In the year of Yan'an, Demuda Nigeria Branch was established in Africa

2025

2025 The year of Xibaipo Opening up to global dealers

2026

The year for the deepening and full-scale rollout of the globalization strategy

HYBRID SOLAR INVERTER

EU STANDARD



- Pure sine wave solar inverter (Optional on/off Grid)
- Inverter can run without battery, One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- WIFI & GPRS available for IOS and Android
- Built-in MPPT Solar Controller
- Wide Voltage Input
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life

Datasheet

Model (DFHY-)	1.5KVA PRO	2.2KVA PRO	4.2KVA	6.2KW PRO	6.2KWBG PRO	12KVA PRO	13.2KVA
AC Input							
Rated Input Voltage (VAC)	208/220/230/240;L+N+PE						
Voltage Range (VAC)	90~280±3(normal mode):170~280±3(UPS mode)						
Frequency(Hz)	50/60(Auto Adaptive)						
AC Output							
Rated Capacity (kW)	1.2	2	3.6	6.2	6.2	12	12
Surge Power (kVA)	2.4	4	7.2	12.4	12.4	24	24
Voltage (VAC)	208/220/230/240						
Power Factor(PF)	1						
Frequency	50/60Hz±0.1%						
Switch Time (ms)	10(normal mode)/10 (UPS mode)						
Wave Form	Pure Sine Wave						
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load						
Max. Efficiency (Battery Mode)	>90% 12VDC	>93% 12VDC	>93% 24VDC	>93% 48VDC	>93% 48VDC	92.7%@ 48VDC	>93% 48VDC
Parallel Quantity	NA	NA	NA	NA	9	NA	6 Max
Charger (PV / AC)							
Solar Charger Type	MPPT						
Max PV Input Current/Power	14A/800W	18A/3000W	18A/5000W	27A/9000W	27A/9000W	7500W/22.5A+ 7500W/22.5A	22A*2/5500W*2
MPPT Range@Operating Voltage (VDC)	20-100	30-400	40~450	60-450	60-450	60-450	120~450
Max PV Open Circuit Voltage (VDC)	125	450	500	500	500	500	500
Max PV Charge Current (A)	50	100	100	120	120	160	150
Max AC Charge Current (A)	50	100	100	120	120	160	150
Max. Charge Current (PV + AC)(A)	100	100	100	120	120	160	150
Battery							
Rated Voltage(VDC)	12	12	24	48	48	48	48
Floating Charge Voltage (VDC)	13.5	13.5	27	54	54	54	54
Overcharge Protection (VDC)	15	15	30.5	61	61	61	60
Battery Type	Lithium and Lead-acid						
Interface							
HMI	LCD						
Interface	RS485/USB	RS485/RS232/USB/Dry Contact					RS485/USB Dry Contact
Monitoring	WiFi (Optional)						
General Data							
Ingress Protection	IP20						
Operating Temperature	-10℃~ 50℃						
Relative Humidity	5%~95%(Non-condensing)						
Storage Temperature	-10℃~50℃						
Net Weight (KG)	3.54	6.25	8.73			14	20
Dimensions(W*H*D mm)	334.53*240*91	440*290*100	470*300*110			575*425*120	550*365*130
Max. Operating Altitude	4000m(Derating above 1000m)						

HYBRID SOLAR INVERTER

US STANDARD



- Pure sine wave solar inverter (Optional on/off Grid)
- Inverter can run without battery, One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- WIFI & GPRS available for IOS and Android
- Built-in MPPT Solar Controller
- Wide Voltage Input
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life

Datasheet

Model (DFUS-)	3.6KW	6.5KW	7.2KW	12KW
Parallel Mode (Function Reserved)				
Allow Quantity	1~6			
Mains Mode				
Nominal Input Voltage	120Vac±5%		120(L1/N, L2/N)/240Vac(L1/L2)	
Input Phase Voltage Range	(90Vac~140Vac)±2%		(85Vac~140Vac)±2%	
Frequency	50Hz/60Hz (Auto Detection)			
Frequency Range	47±0.3Hz~55±0.3Hz (50Hz); 57±0.3Hz~65±0.3Hz (60Hz);			
Max. Efficiency	>95%			
Conversion Time (Bypass And Inverter)	10ms (Typical)			
Max. Bypass Phase Overload Current	40A	63A	2P, 50A/50A(L1/L2)	2P, 63A/63A(L1/L2)
Inverter Mode				
Output Voltage Waveform	Pure Sine Wave			
Nominal Output Power (VA)/(W)	3600VA/3600W	6500VA/6500W	Split phase:7200VA/7200W Single phase: 6000VA/6000W	Split Phase:12000VA/12000W Single Phase: 7200VA/7200W
Power Factor	1			
Nominal Output Voltage (VAC)	120Vac		120Vac (L1/N, L2/N)/240Vac(L1/L2)	
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz			
Max. Efficiency	>91%			
Overload Protection	(102% < load <125%) ± 10%: report error and turn off the output after 5 minutes; (125% < load < 150%) ± 10%: report error and turn off the output after 10 seconds; Load >150% ± 5%: report error and turn off the output after 5 seconds;		(102% < load <110%) ± 5% (110% < load < 125%) ± 5% Load >125% ± 5%	
Peak Power	72000VA	12000VA	Split phase: 10800VA Single phase: 10800VA	Split phase: 18000VA Single phase: 18000VA
Loaded Motor Capability	2HP	5HP	4HP	6HP
Nominal Battery Input Voltage	48V (Minimum starting voltage 44V)			
Battery Voltage Range	40.0Vdc~60Vdc±0.5Vdc	40.0Vdc~60Vdc±0.6Vdc (Undervoltage alarm/shutdown voltage/ overvoltage alarm/overvoltage recovery... settable on LCD screen)		
Save Power Mode	Load≤25W Enter Power-Saving Mode			
Mains Charge				
Battery Type	Lead acid or lithium battery			
Max. Charge Current (Configurable)	80A	150A		220A
Charge Voltage Range	40 ~60Vdc			
Solar Charge				
Max. PV Open Circuit Voltage	300Vdc	300Vdc	500Vdc	
PV Operate Voltage Range	80Vdc~300Vdc	80Vdc~300Vdc	90Vdc~500Vdc	
MPPT Voltage Range	90Vdc~260Vdc	90Vdc~250Vdc	90Vdc~450Vdc	
Battery Voltage Range	40-60Vdc	40-60Vdc	40-60Vdc	
Max. PV Input Power/Current	4000W/22A	4500W×2/22A×2	4500W×2/16A×2	6000W×2/22A×2
Charge Current Range (Configurable)	0-80A	0-150A	150A	220A
Max. Hybrid Charge Current (PV+AC)				
Max. Hybrid Charge Current (Configurable)	0-80A	0-150A		0-220A
Certification				
Safety Certification	CECIEC62109-1.2		UL STD.1741	
EMC Certification Level	EN61000, C2		FCC part15, CLASS B	
Operate Temperature Range	-15°C to 55°C		-10°C to 55°C(>45°C derating)	
Storage Temperature Range	-25°C ~ 60°C			
Humidity Range	5% to 95% (Three anti-paint protection)		5% to 95% (Conformal coating protection)	
Noise	≤60dB			
Cooling	Forced air cooling, Dual intelligent speed regulating fans			
Communicate	USB/RS485(/WiFi/GPRS)/ Dry node control			
Dimensions(L*W*D mm)	415*280*100	550*365*130	580*359*127	620*450*132
Weight (KG)	7.8	20	18.9	23.8

LOW VOLTAGE HYBRID INVERTER

SINGLE-PHASE HYBRID



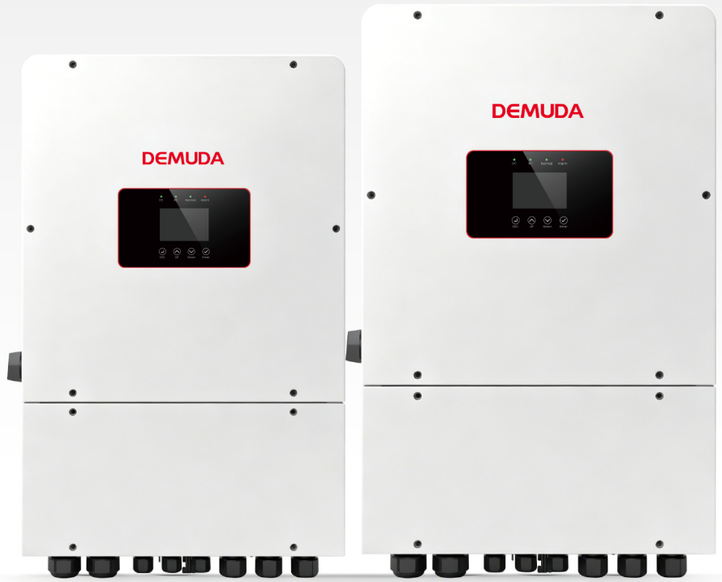
- Color touch screen
  IP65 protection
- Supports AC coupling to improve solar system efficiency
- Direct support for diesel generator power without external converter
- Support to set up 6 time periods of charge/discharge
- Up to 16 units parallel during on/off-grid operation
  Supports multiple battery parallel
- Max charge and discharge current 190A

Datasheet

Model (DF-LVHHxxK1P-EU)	6K	8K	10K	12K
Battery Input Data				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	135	190	220	250
Max. Discharging Current (A)	135	190	220	250
Charging Curve	3 Stages / Equalization			
External Temperature Sensor	Yes			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data				
Max. DC Input Power (W)	7800	10400	13000	15600
PV Input Voltage (V)	370V(125V~500V)			
MPPT Range (V)	150~425			
Full Load DC Voltage Range	200~425			
Start-up Voltage (V)	125V			
PV Input Current (A)	13+13	20+20	26+26+26	
No. of MPPT Trackers	2		3	
No. of Strings Per MPPT Tracker	1+1		1+1+1	
AC Input/Output Data				
Rated AC Output and UPS Power (W)	6000	8000	10000	12000
Max. AC Output Power (W)	6000	8000	11000	132000
Peak Power (offgrid)	2 times of rated power, 10 S			
AC Input/Output Rated Current (A)	27.3/26.1	36.4/34.8	45.5/43.5	54.6/52.2
Max.AC Input/Output Current (A)	30/28.7	40/38.3	50/47.9	60/57.4
Max. Continuous AC Passthrough (A)	40	50	60	60
Power Factor	0.8 leading -0.8 lagging			
Output Frequency and Voltage	50/60Hz;220/230Vac			
Grid Type	Single Phase			
Total Harmonic Distortion (THD)	<3% (of nominal power)			
DC Current Injection	<0.5%In			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	96.50%			
MPPT Efficiency	>99%			
Certifications and Standards				
Grid Regulation	IEC61727/EN50549-1	IEC62116/IEC61727/EN50549-1		
Safety EMC / Standard	IEC/EN 61000-6/2/4,IEC/EN 62109-1,IEC/EN 62109-2			
General Data				
Operating Temperature Range (℃)	-40~+60℃,>45℃ Derating			
Cooling	Smart Cooling			
Noise (dB)	≤50 dB			
Communication With BMS	Rs485; CAN			
Monitoring Mode	WIFI，APP			
Weight (kg)	24	29	31	
Cabinet Size (mm)	346Wx506Hx255D	426Wx526Hx255D	446Wx576Hx254D	
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			

HIGH-VOLTAGE HYBRID INVERTER

3-PHASE HYBRID



- Color touch screen
  IP65 protection
- Supports AC coupling to improve solar system efficiency
- Direct support for diesel generator power without external converter
- Support to set up 6 time periods of charge/discharge
- Up to 10 units parallel during on/off-grid operation
  Supports multiple battery parallel
- Max charge and discharge current 240A

Datasheet

MODEL	20K	30K	50K
PV String Input			
Max. DC Input Power (W)	39000	52000	65000
Max. DC Input Voltage (V)		1000	
Start-up Voltage (V)		180	
MPPT Range (V)		150-850	
Full Load MPPT Voltage Range (V)	360-850	360-850	450-850
Rated DC Input Voltage (V)		600	
PV Input Current (A)	36+36+36	36+36+36+36	
Max. PV Isc (A)	55+55+55	55+55+55+55	
No.of MPPT Trackers	3	4	
No.of Strings per MPPT Tracker	2+2+2	2+2+2+2	
AC Input/Output Data			
Rated AC Output Power (W)	30000	40000	50000
Max. AC Output Power (W)	33000	44000	55000
AC Input/Output Rated Current(A)	45.5/43.5	60.7/58.0	75.8/72.5
Max.AC Input/Output Current(A)	50/47.9	66.7/63.8	83.4/79.8
Max. Three-phase Unbalanced Output Current (A)	60	70	83.4
Max. Continuous AC Passthrough (A)	200	200	200
Peak Power (Off Grid)		1.5 times of rated power, 10S	
Power Factor		0.8 leading - 0.8 lagging	
Output Frequency and Voltage		50/60Hz; 3L/N/PE 220/380Vac 230/400Vac	
Grid Type		Three Phase	
Total Harmonics Distortion (THDi)		<3% (of nominal power)	
DC Current Injection		<0.5% In	
Battery			
Battery Type		Lithium-ion	
Battery Voltage Range (V)		160-800	
Max. Charging Current (A)		50+50	
Max. Charging Current (A)		50+50	
Number of Battery Input		2	
Charging Strategy for Li-Ion Battery		Self-adaption to BMS	

LOW VOLTAGE HYBRID INVERTER

3-PHASE HYBRID



48V low voltage battery, built-in transformer for safety isolation

Supports AC coupling to improve solar system efficiency

Direct support for diesel generator power without external converter

Support to set up 6 time periods of charge/discharge

Up to 10 units parallel during on/off-grid operation
Supports multiple battery parallel

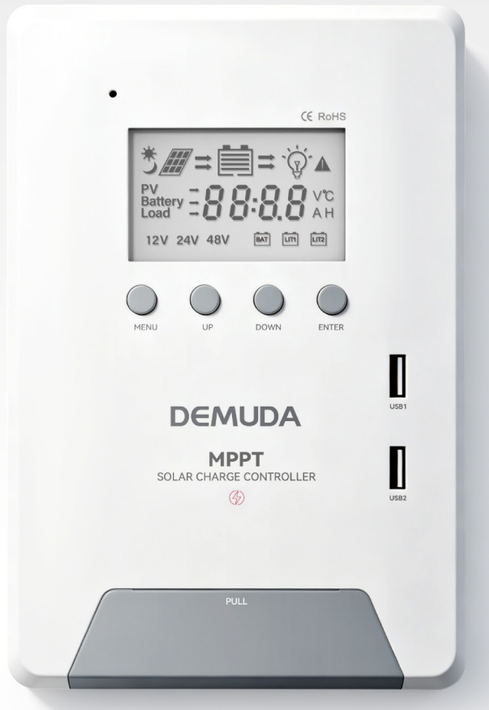
Max charge and discharge current 240A

Datasheet

Model (DF-LVHHxxK3P-EU)	10K	12K
PV String Input		
Max. DC Input Power (W)	13000	15600
Rated PV Input Voltage (V)	550(160-800)	
Start-up Voltage (V)	160	
MPPT Voltage Range (V)	200-650	
Full Load MPPT Voltage Range (V)	350-650	
No.of Strings per Max. DC Input Current (A)	26+13	
Max. DC Short Circuit Current (A)	34+17	
No.of MPPT Trackers	2	
No.of Strings per MPPT Tracker	2+1	
AC Input/Output Data		
Rated AC Output and UPS Power (W)	10000	12000
Max. AC Output Power (W)	11000	13200
Peak Power (off grid)	2 times of rated power, 10 S	
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	
Power Factor	0.8 leading -0.8 lagging	
Output Frequency and Voltage	50/60Hz; 220/380Vac, 230/400Vac (Three Phase)	
Grid Type	Three Phase Four Wire	
Total Harmonic Distortion (THD)	<3%	
DC Current Injection	<0.5%In	
Battery		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range (V)	40-60	
Max. Charging Current (A)	200	240
Max. Discharging Current (A)	200	240
Charging Curve	3 Stages/Equalization	
External Temperature Sensor	Yes	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
Efficiency		
Max. Efficiency	97.6%	
Euro EfficiencyA	97.0%	
MPPT Efficiency	99.0%	
Certifications And Standards		
Grid Regulation	IEC61727/62116,EN50549-1	
Safety EMC/ Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2	
General Data		
Operating Temperature Range(C)	-40~+60℃,>45℃ Derating	
Cooling	Smart cooling	
Noise(dB)	≤50 dB	
Communication with BMS	RS485;CAN	
Monitoring Mode	WIFI/APP	
Cabinet Size(mm)	446Wx576Hx255D(Excluding connectors and brackets)	
Weight(kg)	37.5	
Warranty / Protection Degree	5 Years (10 Years Optional) / IP65	

MPPT-DM CONTROLLER

MPPT-DM130/DM140/DM160



99% Efficient

MPPT Technology Compatible

Self-Identification Voltage

Smart Circuit Protection
Dual USB Output

With A Wide Range Of Batteries

Datasheet

Model	DM130		DM140		DM160	
Rated Charging Current (A)	30A		40A		60A	
Rated Discharge Current (A)	10A					
USB Output Current (A)	5V3A Max					
PV Maximum Open Circuit Voltage	80V		100V		150V	
PV Maximum Input Power	400W/12V 800W/24V		550W/12V 1100W/24V		800W/12V 1600W/24V 3200W/48V	
MPPT Tracking Efficiency	≥99%					
Conversion Efficiency	≤98%					
System Voltage (V)	12V24V auto adapt		12V24V auto adapt		12V24V48V auto adapt	
Lithium/LIT1/L1						
System Voltage (V)	12V3 seres default	adjustable	24V7series defau	adjustable	48V13series defat	adjustable
Floating Charge Yoltage	12.6V	/	29.6V	/	54.6V	/
Discharge Cut-off Voltage	9V	8.5-10.5	21V	19.8-24.5	39	36.8-45.5
Discharge Recovery Voltage	10.5V	10.0-11.5	24.5V	23.5-27	45.5	43-50
LifePo4/LIT2/L2						
System Voltage (V)	12V4 seres default	adjustable	24V8series defau	adjustable	24V16series defat	adjustable
Floating Charge Yoltage	14.6V	/	29.6V	/	58.4V	/
Discharge Cut-off Voltage	11V	10.5-12.5	22V	21-25	44	42-50
Discharge Recovery Voltage	12.5V	12.0-13.5	25V	24-27	50	48-54
LEAD ACID/BAT/BAT						
System Voltage(V)	12V	adjustable	24V	adjustable	48	adjustable
Floating Charge Yoltage	13.8V	13-15	27.6V	26-30	55.2	52-60
Discharge Cut-off Voltage	10.7	9.5-11	21.4V	18-22	42.8	38-44
Discharge Recovery Voltage	12.6	11.5-13	25.2V	23-26	50.4V	46-52

MPPT-T 40A PRO

MPPT-T30A/T40A/T60A/T80A/ T100A/T120A T-60A-96V/T-100A-96V



- Multiple Protection
- Intelligent Control
- With A Wide Range Of Batteries
- Up To 99.5% Efficiency
- Efficient Heat Dissipation
- RS485 WIFI real-time monitoring

Datasheet

MPPT MODEL		MPPT-T 40A PRO	MPPT-T 60A PRO	MPPT-T 80A PRO	MPPT-T 100A PRO
Charging Mode		MPPT Automatic Maximum Power Point Tracking			
Charging Method		MPPT Maximum Power Point Tracking, Fast Charging, Constant Voltage, Float Charging			
Battery Type	Lead-acid Battery	Automatically recognizes 12V, 24V, 48Vand can be set from 12V to 120V			
	Gel Battery	Manuallyset from 12V to 120V			
	Lithium Iron Phosphate Battery 3.2V	Adjustable in series from 2S to 45S			
	Lithium -ionBattery 3.7V	Adjustable in series from 2S to 45S			
Lithium Battery Activation Function		After manually setting the battery type, with photovoltaic input, there is a charging voltage output (activates lithium battery)			
Maximum Open-circuit Input Voltage of Photovoltaic		180V	230V		
Photovoltaic Start Charging		Photovoltaic input voltage is greater than battery voltage + 2V			
Charging Current		40A	60A	80A	100A
Maximum Photovoltaic Input Power		Battery charging voltage (V)*Maximum charging current (A)			
DC Output Function		Continuous output 20A		Continuous output 40A	
Display		LCD display (total power generation, daily power generation, DC output light time control, photovoltaic parameters, battery parameters), bilingual display			
Communication: Uses Modbus communication method		6-pin RS485 communication port (see pin definition diagram)			
Operating Environment Temperature		-20℃ to +40℃			
IP Protection Rating		IP21			
Altitude		0-3000m			
MMReference Product Dimensions (mm)		218*203*99	218*203*99	267*178*100	318*222*110
Reference Product Net Weight (kg)		1.5	1.8	2.5	3.75
Reference Product Gross Weight (kg)		1.8	2.1	2.85	4.2

PWM-DX CONTROLLER

PWM-DX2110/DX2120/DX2130
DX2140/DX2150/DX2160



- Wide Voltage Automatic Recognition 12V/24V/48V
- Built-in fan for efficient heat dissipation
- Dual MOS Circuitry
- 3-Stage Charging
- Support Customization
- Dual USB
- 6 Protection
- 32-bit High-speed Chip

Datasheet

Model	DX2110	DX2120	DX2130	DX2140	DX2150	DX2160
System Voltage	12V/24V/Automatic adaptation				12/V24V/48V/Automatically adaptation	
Rated Charge Current	10A	20A	30A	40A	50A	60A
Rated Discharge Current	10A	20A	30A	40A	50A	60A
Maximum Pv Input Voltage	12V systems >28V protection < 25V recovery, 24V systems >53V protection < 50V recovery,				12V system > 28V protection < 25V recovery, 24V system > 53V protection < 50V recovery, 48V system > 100V protection < 97V recovery	
Charging Method	Default PWM charging, b04/b05 can be set to on-off charging					
Usb Output	3A					
Standby Current	<10mA					
Battery Type	b01 sealed lead-acid batteries	b02 gel-type lead-acid batteries	b03 open lead-acid batteries	b04 lithium ternary battery	b05 lithium iron phosphate battery	
High Voltage Protection HVD	16V					
High Voltage Recovery HVR	15V					
Boost Charging Voltage	14.4V	14.2V	14.6V	12.6V	14.6V	
Equalize Charging Voltage	14.6V	/	14.8V	/		
Float Charge Voltage	13.8V					
Boost Charge Return Voltage	13.2V			/		
Discharge Recovery Voltage	12.6V			10.5V	12.6V	
Discharge Cutoff Voltage	11.1V			9.5V	11.1V	
Enhanced Charging Time	2H			/		
Equalize Charging Time	2H	/	2H	/		
Size(mm)	165*92*36		192*114*55		211*126*59	
Weight	286g		610g		806g	

NEXT-GENERATION ESS PORTABLE POWER STATION

MPPT RANGE FROM 10VDC TO 55VDC



- Highly Cost-Effective Single-Cell
- Pure Sine Wave, Stable Power Supply
- Lithium Battery 10 years 8000+ Cycles
- Dual Fast Charging Without Installation,Super Safe

Datasheet

MODEL	ESS 300W+896WH	ESS 500W+1000WH	ESS 1000W+2048WH
Inverter/Charger			
Rated AC Output Powcr	300W	500W	1000W
Output Voltage Waveform		Pure Sine Wave	
Output Voltage		185 ~230VAC 50Hz	
Low DC Warning Point		≤19%	
Low DC Cut-off Voltage	2.9Vdc	2.9Vdc	5.8Vdc
Low DC Warning Return Voltage		>20%	
Charging Power (Utility and solar together)	400W Max	500W Max	800W Max
Bulk Charging Voltage	3.6Vdc	3.6Vdc	7.2Vdc
Float Charging Voltage	3.5Vdc	3.5Vdc	7.0Vdc
DC Output			
DC Output Power		5W Max.	
DC Output Socket		1 pcs 5V DC USB charger	
Display Function			
LED Indicator		4pcs SOC indicators,1 pcs working status indicators	
Protection		Overcharge protection, Overdischarge protection, Overcurrent protection Shortcircuit protection. Overtemperature protection"	
Ambient			
(dB)Noise(dB)		<40dB(1mctcr)	
working Temperature		-10℃~+50℃	
Humidity		5~95%(no condensation)	
Sea Level(m)		≤2000	
Dimension			
L×W×H(products size)	210x156x356mm	210x156x356mm	240x225x360mm
LxWxH(package size)	262×212x412mm	262x212x412mm	286x271x416mm
Weight(NW Kg)	11.0Kg	11.0Kg	20.9Kg
Weight(GW Kg)	12.0Kg	12.0Kg	22.7Kg

MOBILE ENERGY STORAGE POWER SUPPLY

DMD-CT8-3143S1



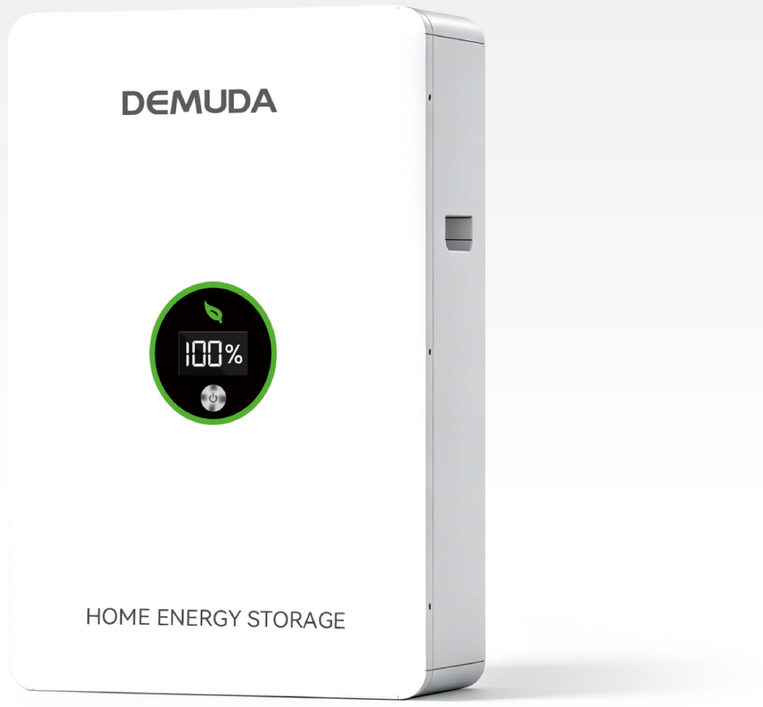
- Super large-capacity battery pack, 25.6V 314Ah, enjoy 8KWh powerful electricity.
- Using a digital CPU, it can achieve rapid response to various surges.
- The number of recharge cycles can reach up to 10,000 times.
- (Customizable Lithium Battery Management System)
- Automatic switching in milliseconds
- $LiFePO_4$ Cell

Datasheet

MODEL	DMD-CT8-3143S1
Product name	Mobile energy storage power supply
Energy storage battery capacity	25.6V 314Ah
Inverter output voltage	AC220V
Output frequency	50~60HZ±0.1%
Inverter output waveform	pure sine wave
Solar charging input	5000W(40-450vdc)
AC power charging input voltage	90-270VAC+3V(APLMode)170-280VAC+3V(UPSMode)
Output continuous power	3600W
Storage temperature range	-15-60℃
Operating humidity	20%~95%（Non-condensing） 20%-95% (non-condensing)
Weight	70kg±0.5KG
Overall dimensions of the appearance	773*460*232mm

RESIDENTIAL ENERGY STORAGE LIFEPO4 BATTERY

WALL-MOUNTED 51.2V 5/10KWH



Security
Using A-grade LiFePO4 battery, with MSDS, UN38.3, ROHS, IEC62619, UL

Professional Energy Storage Technology
100% high-precision control, reliability and multi-dimen-sional protection

Capacity Expandable
Support for up to 15 batteriesin parallel

Smart Energy Management
Equipped with BMS Battery management system tointelligenty manage andmaintain each battery unit

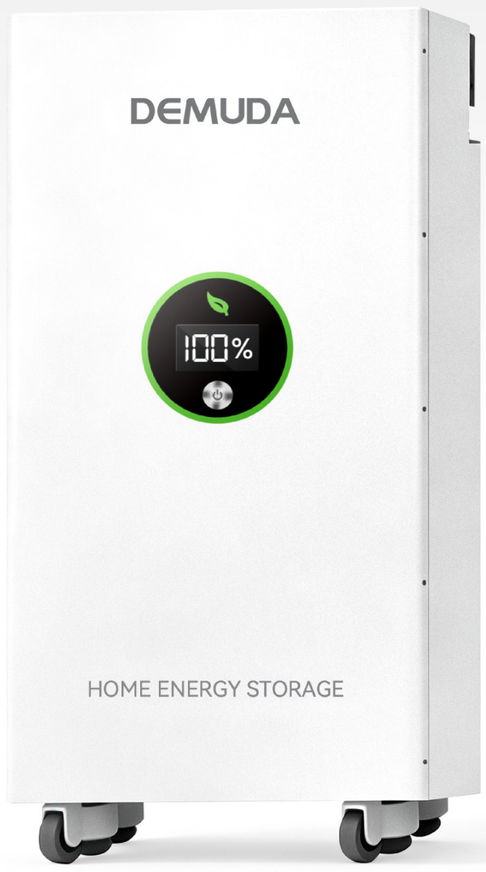
Maintenance-Free
6000+ cycles, 10-year service life

Datasheet

Battery Model		FSD-P05KWH-100AH	FSD-P10KWH-200AH
Nominal Voltage		51.2V	51.2V
Cell Model		16S1P	16S1P
Nominal Capacity		100A	100A
Nominal Energy		5KWh	10KWh
Maximum Charging Current		100A	200A
Maximum Discharge Current		100A	200A
Discharge Termination Voltage		42.4V	42.4V
Charging Voltage		58.4V	58.4V
Charge Over Current Protection		100A	200A
Discharge Over Current Protection		100A	200A
Energy Extension		Max.15 units in parallel	
Communication Function		RS232、RS485、CAN	RS232、RS485、CAN
Ingress Protection		IP20	IP20
BMS Features		High accuracy cell level voltage,current measuring Over-charge,over-discharge protection Short-circuit protection Self-learning intelligent SOC calculation Cell level active equalization Multiple communication type Parallel connect function	
Working Temperature		-20℃~+60℃	
Storage Temperature		0℃~+60℃	
Working Humidity		< 95%RH	
Single Battery Module	Dimensions(mm)(H*W*D)	600*390*190	800*490*190
	Weight(Kg)	50	102

RESIDENTIAL ENERGY STORAGE LIFEPO4 BATTERY

51.2V 15KWH MAX.225KWH (15 UNITS IN PARALLEL)



Security
Using A-grade LiFePO4 battery, with MSDS, UN38.3, ROHS, IEC62619, UL

Capacity Expandable
Support for up to 15 batteriesin parallel

Professional Energy Storage Technology
100% high-precision control, reliability and multi-dimen-sional protection

Smart Energy Management
Equipped with BMS Battery management system tointelligenty manage andmaintain each battery unit

Maintenance-Free
6000+ cycles, 10-year service life

Datasheet

Battery Model		FSD-T15KWH-280AH	FSD-T20KWH-280AH
Nominal Voltage		51.2V	
Cell Model		16S1P	
Nominal Capacity		280AH	400AH
Nominal Energy		15KWh	20KWh
Maximum Charging Current		200A	
Maximum Discharge Current		200A	
Discharge Termination Voltage		42.4V	44V
Charging Voltage		58.4V	
Charge Over Current Protection		200A	
Discharge Over Current Protection		200A	
Energy Extension		Max.15 units in parallel	
Communication Function		RS232、RS485、CAN	
Ingress Protection		IP20	
BMS Features		High accuracy cell level voltage,current measuring Over-charge,over-discharge protection Short-circuit protection Self-learning intelligent SOC calculation Cell level active equalization Multiple communication type Parallel connect function	
Working Temperature		-20℃~+60℃	
Storage Temperature		0℃~+65℃	
Working Humidity		< 95%RH	
Single Battery Module	Dimensions(mm)(H*W*D)	883*416*250	887*245*500
	Weight(Kg)	115	≥ 125±2

RESIDENTIAL ENERGY STORAGE LIFEPO4 BATTERY

RACK-STACK LOW VOLTAGE SYSTEM SOLUTION

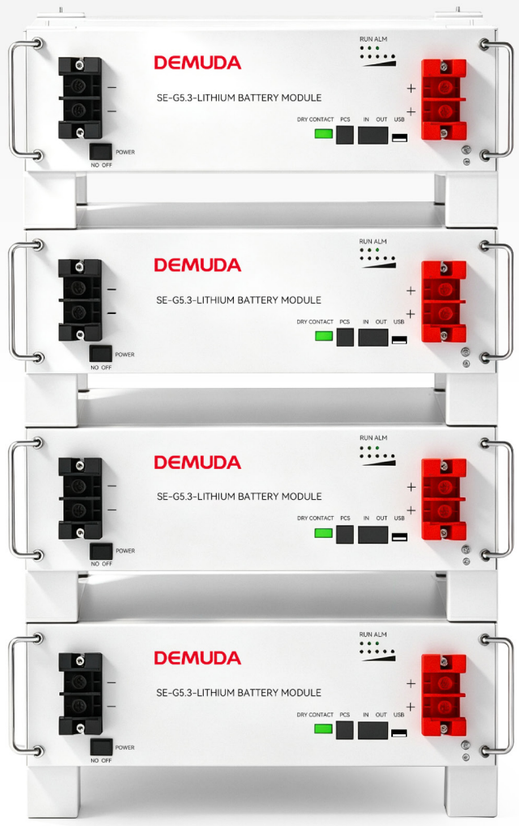
Low Voltage Battery
Capacity 105Ah

Scalability
Up to 64 units in parallel without external setup

Cycle Life
≥6000(25℃+2℃, 0.3C/0.3C 90%DOD, 70%EOL)

Installation
19-inch standard rack, floor-standing, wall-mounted

Warranty
5/10 years



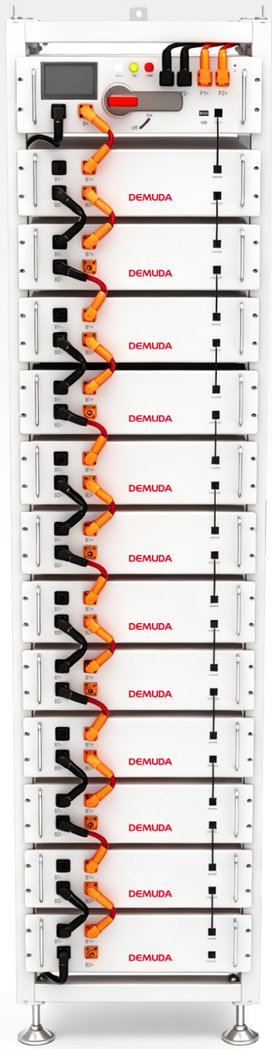
Datasheet

Model		FSD-D05KWH-105AH
Main Parameter		
Battery Chemistry		LiFePO4
Capacity(Ah)		105
Scalability		Max.64 pcs pack (340kWh) in parallel (Max. 32 pcs no external setup)
Nominal Voltage (V)		51.2
Operating Voltage(V)		43.2~57.6
Energy (kWh)		5.32
Usable Energy (kWh) [1]		4.79
Charge/Discharge Current (A) [2]	Recommend	50
	Max.	100
	Peak	150(2mins,25℃)
Other Parameter		
Recommend Depth of Discharge		90%
Dimension (W/H/D, mm)		440*133*560
Weight Approximate(Kg)		44
Master LED indicator		5LED(SOC:20%~100%)
		3LED (working, alarming, protecting)
IP Rating Of Enclosure		IP20
Working Temperature		Charge:0℃~55℃ Discharge:-20℃~55℃
Storage Temperature		0℃~35℃
Humidity		5%~95%
Altitude		≤2000m
Cycle Life		≥6000(25℃+2℃, 0.3C/0.3C 90%DOD, 70%EOL)
Installation		19-inch standard rack (depth≥600mm), Floor-Mounted
Communication Port		CAN2.0, RS485
Certification		CE, IEC62619, UN38.3
Energy Throughput		16MWh@70%EOL

[1] DC Usable Energy, test conditions: 90% DOD, 0.3C charge & discharge at 25℃. System usable energy may vary due to system configuration parameters.
[2] The current is affected by temperature and SOC.

RESIDENTIAL ENERGY STORAGE LIFEPO4 BATTERY

RACK-STACK HIGH VOLTAGE SYSTEM SOLUTION



High Voltage Battery
System capacity 61.44kWh

Scalability
Module Energy 5.12kWh, Maximum 12

Cycle Life
≥6000(25±2℃, 0.5C/0.5C, EOL70%)

Installation
19-inch standard rack, floor-standing, wall-mounted

Warranty
5/10 years

Datasheet

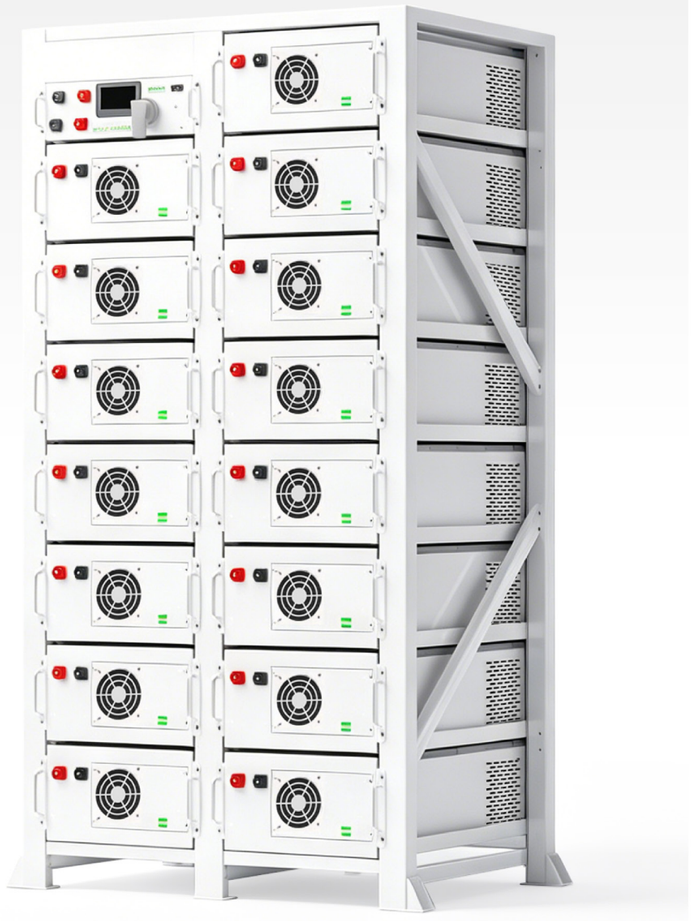
Model (HV-)		256V 100Ah(5S)	307V 100Ah(6S)	358V 100Ah(7S)	409V 100Ah(8S)	460V 100Ah(9S)	512V 100Ah(10S)	563V 100Ah(11S)	614V 100Ah(12S)
Main Parameter									
Battery Type		LiFePO4							
Model Power(kWh)		5.12							
Module Nominal Voltage(V)		51.2							
Rated Energy(Ah)		100							
Battery Module QTY		5	6	7	8	9	10	11	12
System Rated Voltage(V)		256	307.2	358.4	409.6	460.8	512	563.2	614.4
System Operating Voltage (V)		224~288	268.8~345.6	313.6~403.2	358.4~460.8	403.2~518.4	448~576	492.8~633.6	537.6~691.2
System Nominal Power (kWh)		25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44
System Discharge Power (kWh)		23.04	27.65	32.26	36.86	41.47	46.08	50.69	55.3
Charging / Discharging Current (A)	Rated Current	50							
	Max. Current	100							
	Overload Current	125(1 min,25℃)							
Communication Protocol		CAN2.0							
Working Temperature Range (℃)		-20 ~ 55							
Working Humidity Range		≤95% (No condensation)							
Working Altitude		≤2000m							
System Cooling Method		Natural cooling							
Protection Grade		IP20							
Installation Location		Indoor							
Net Weight(KG)		320	364	408	452	496	540	584	628
Dimension(mm)		560*629*2158							
Storage Temperature(℃)		0~35							
Recommended Discharge Depth		90%							
Cycle Life		25+2℃/0.2C/80%≥6000							
Certification		CE/MSDS/UN38.3							

[1] System discharge power, test conditions: 90% DOD, 0.2Ccharging and discharging at 25℃.
(The available energyof the system may vary depending on the system configuration parameters)
[2] The current magnitude is affected by temperature and SOC.

HV RACK MOUNT LIFEPO4 BATTERY

512V/614V/716V/768V 280AH

- Support In Series
- Master Integrated Combiner Box
- High Reliability & High Security
- Two-Level And Three-Level Architecture



Datasheet

Model	512V280Ah-143KWh	614V280Ah-172KWh	716V280Ah-200KWh	768V280Ah-215KWh
Main Parameter				
Battery Type	LiFePO4			
Battery Module	10	12	14	15
Battery Energy	143KWh	172KWh	200KWh	215KWh
Nominal Voltage	512V	614V	716V	768V
Rated Capacity	280Ah			
End-Of-Charge Voltage	576V	691.2V	806.4V	864V
End-Of-Charge Voltage	448V	537.6V	627.2V	672V
Standard Charge Current	100A			
Max. Charge Current	140A			
Standard Discharge Current	100A			
Max. Discharge Current	200A			
Max. Peak Current	250A			
Communication	RS485/CAN			
Work Temperature Range	Charge:0℃~55℃ Discharge:-15℃~60℃			
Charge/Discharge Interface	2P/ M8 Terminal / Waterproof connector (optional)			
Communication Interface	RS485/CAN			
Shell Material/Color	Metal / White (color optional)			
Size(mm)	1000*800*1620mm	1000*800*1850mm	1000*800*2000mm	1000*800*2050mm
Weight Approximate(Kg)	1500Kg	1850Kg	2000Kg	2085Kg

SOLAR ENERGY STORAGE DIESEL AC/DC INTEGRATED CABINET

BATTERY +PCS+MPPT +DIESEL GENERATOR INTERFACE UP TO 10 UNITS IN PARALLEL (HYBRID)



Automotive Grade Process

Hybrid Inverter + LiFePO4 Battery + MPPT + Generator Port

Integrated Fire Protectionand Air-Conditioner

Integrated BMS / PCS / EMS

Datasheet

Model	50KWh+30KW/IP54	50KWh+30KW/IP20	60KWh+30KW/IP54	60KWh+30KW/IP20
Battery				
Battery Type	LiFePO4			
Rated Energy	51KWh	51KWh	61KWh	61KWh
Nominal Voltage	512V		614V	
Rated Capacity	100Ah			
Max. Work Current	100A			
PV				
Max. Power	38KW			
Max. PV Voltage	850Vdc			
MPPT Voltage Range	200-820Vdc			
Max. PV Current	30A+30A			
MPPT Channels	2			
AC (On-Grid)				
Rated Power	30KW			
AC Voltage	400Vac/230Vac (L1/L2/L3/N/PE)			
Rated Frequency	50Hz/60Hz			
Max. AC Current	50A			
Max. Parallel Number	10			
AC (Off-Grid)				
Rated Power	30KW			
AC Voltage	400Vac/230Vac (L1/L2/L3/N/PE)			
Rated Frequency	50Hz/60Hz			
Max. AC Current	43A			
Switching Time	<20ms			
Max. Parallel Number	10			
General Parameter				
Communication Type	RS485/WiFi			
IP Grade	IP54	IP20	IP54	IP20
Fire Protection System	Yes			
Operating Temperature	-10~55℃			
Humidity Range	5%~95%			
Altitude	< 3000m			
Battery Cooling Method	Air-Conditioner	/	Air-Conditioner	/
PCS Cooling Method	Intelligent cooling			
Dimensions(W*D*H)	660*1130*1850mm	600*850*1750mm	660*1130*1850mm	600*850*1750mm
Weight Approximate(Kg)	600Kg	530Kg	680Kg	600Kg

AC/DC INTEGRATED CABINET FOR C&I SYSTEMS

BATTERY+PCS+MPPT + DIESEL GENERATOR INTERFACE (HYBRID)



Automotive Grade Process

Hybrid Inverter + LiFePO4 Battery + MPPT + Generator Port

Integrated Fire Protectionand Air-Conditioner

Integrated BMS / PCS / EMS

Datasheet

Model	215KWh+100KW/IP54
Battery	
Battery Type	LiFePO4
Rated Energy	215KWh
Rated Capacity	280Ah
Nominal Voltage	768V
Max. Charge Voltage	876V
Cut-off Discharge Voltage	672V
Max. Charge Current	200A
Max. Discharge Current	200A
PV	
Max. PV Voltage	900Vdc
MPPT Voltage Range	250~850Vdc
Max. PV Current	200A
MPPT String	1
Rated Power	120KW
AC (On-grid)	
Rated Power	100KW
Rated Voltage	400Vac/230Vac(L1/L2/L3/N/PE)
Rated Frequency	50Hz/60Hz
Max. AC Current	145A
AC (Off-grid)	
Rated Power	100KW
Rated Voltage	400Vac/230Vac(L1/L2/L3/N/PE)
Rated Frequency	50Hz/60Hz
Max. AC Current	145A
Switching Time	< 20ms(Off-grid)
Parallel	3 (Hybrid)
General Parameter	
Communication	RS485/WiFi
Fire Protection	Aerosol and Perfluorohexanone
Cooling Mode	Air-Conditioner
IP Grade	IP54
Altitude	<2000m
Work Temperature	-10°C~55°C
Size/mm	1450*1355*2190
Weight Approximate(Kg)	2400Kg

LIFEPO4 BATTERY

132AH/135AH/150AH/171AH
200AH/300AH



- Internal BMS
- A+ Prismatic Cell
- 6000+ Cycle Times
- Environmental Protection
- Lighter Weight
- High Stability

Datasheet

Battery Model		132Ah 12.8V	135Ah 12.8V	150Ah 12.8V	171Ah 12.8V	200Ah 12.8V	300Ah 12.8V
Nominal Voltage		12.8V					
Cell Model		4S1P					
Nominal Capacity		132.5Ah	135Ah	150Ah	171Ah	205Ah	306Ah
Nominal Energy		1696Wh	1728Wh	1920Wh	2189Wh	2624Wh	3917Wh
Maximum Charging Current		132.5A	135A	150A	171A	200A	300A
Maximum Discharge Current		132.5A	135A	150A	171A	200A	300A
Discharge Termination Voltage		10V	10V	10V	10V	10V	10V
Charging Voltage		14.6V	14.6V	14.6V	14.6V	14.6V	14.6V
Charge Over Current Protection		130 (MIN) 140 (Type) 150 (MAX)	130 (MIN) 140 (Type) 150 (MAX)	150 (MIN) 160 (Type) 170 (MAX)	180 (MIN) 190 (Type) 200 (MAX)	180 (MIN) 190 (Type) 200 (MAX)	280 (MIN) 310 (Type) 320 (MAX)
Discharge Over Current Protection		130 (MIN) 140 (Type) 150 (MAX)	130 (MIN) 140 (Type) 150 (MAX)	150 (MIN) 160 (Type) 170 (MAX)	180 (MIN) 190 (Type) 200 (MAX)	180 (MIN) 190 (Type) 200 (MAX)	280 (MIN) 310 (Type) 320 (MAX)
Energy Extension		Max.Support up to 4 units in series					
Communication Function		Bluetooth					
Ingress Protection		IP65				IP20	
BMS Features		High accuracy cell level voltage,current measuring Over-charge,over-discharge protection Short-circuit protection Self-learning intelligent SOC calculation Cell level active equalization Multiple communication type Parallel connect function					
Working Temperature		Charge(℃):0~55℃ Discharge(℃):-20~55℃					
Storage Temperature		0℃~25℃					
Working Humidity		60±25%RH.					
Single Battery Module	Dimensions(mm)(W*D*H)	176*332*222	176*332*222	176*332*222	187*502*242	206*387*273	206*387*273
	Weight(Kg)	14	14	16	*	*	*

MODIFY SINE WAVE INVERTER

DF-MK SERIES



- Imported control chip + high-precision circuit board
- Maximum efficiency 93%.
- Application: home, office, vehice, yacht and other ocasions.
- Input under voltage protection, input over voltage protection, overload protection, short circuit protection, over temperature protection.
- Intelligent silent fan automatically turns on and off the fan according to the load and internal temperature to quickly dissipate heat and cool down.

Datasheet

Model	DF-M03K		DF-M05K		DF-M08K	
DC Input						
Rated Input Voltage	12V	24V	12V	24V	12V	24V
Maximum Eficiency	93%					
Battery Type	Lead acid/Lithium battery					
Rated Power	300W		500W		800W	
AC Voltage	220V/110V					
Frequency	50Hz/60Hz					
Wave Form	Trim a sine wave					
Input Protection	Anti-Reverse Connection（Battery）					
Warning Of Low Voltage	10.5V±0.5V（24V）*2（48V）*4					
Low Voltage Protection	10V±0.5V（24V）*2（48V）*4					
Low Voltage Recovery	12.4V±0.5V（24V）*2（48V）*4					
High Voltage Protection	15.0V±0.5V（24V）*2（48V）*4					
High Voltage Recovery	14.5V±0.5V（24V）*2（48V）*4					
Output Short Circuit Protection	After the fault is eliminated,it can be rebooted					
Overload Protection	110%≤Load<125%,5 S shutdown; 125%≤Load,shut down immediately;					
Output Temperature Protection	Heat dissipation temperature>90℃					
Operating	An Arid Environment					
Operating Temperature	0℃~40℃					
Humidity	0-80%					
Other						
Dimension(mm)	140*95*60		170*95*60		219*95*60	
Remote Control Switch Interface	/					
USB	5V 0.5A（Standard Configuration），5V 2A（Optional），QC3.0 18W（Optional）					

MODIFY SINE WAVE INVERTER

DF-MKL SERIES



Intelligent digital display, grasp real-time data

Application: home, office, vehice, yacht and other ocasions.

Maximum efficiency 93%.

Input under voltage protection, input over voltage protection, overload protection, short circuit protection, over temperature protection.

Intelligent silent fan automatically turns on and off the fan according to the load and internal temperature to quickly dissipate heat and cool down.

Datasheet

Model	DF-M03KL		DF-M05KL		DF-M08KL	
DC Input						
Rated Input Voltage	12V	24V	12V	24V	12V	24V
Maximum Eficiency	93%					
Battery Type	Lead acid/Lithium battery					
Rated Power	300W		500W		800W	
AC Voltage	220V/110V					
Frequency	50Hz/60Hz					
Wave Form	Trim a sine wave					
Input Protection	Anti-Reverse Connection（Battery）					
Warning Of Low Voltage	10.5V±0.5V（24V）*2（48V）*4					
Low Voltage Protection	10V±0.5V（24V）*2（48V）*4					
Low Voltage Recovery	12.4V±0.5V（24V）*2（48V）*4					
High Voltage Protection	15.0V±0.5V（24V）*2（48V）*4					
High Voltage Recovery	14.5V±0.5V（24V）*2（48V）*4					
Output Short Circuit Protection	After the fault is eliminated,it can be rebooted					
Overload Protection	110%≤Load<125%,5 S shutdown; 125%≤Load,shut down immediately;					
Output Temperature Protection	Heat dissipation temperature>90℃					
Operating	An Arid Environment					
Operating Temperature	0℃~40℃					
Humidity	0-80%					
Other						
Dimension(mm)	140*95*60		170*95*60		219*95*60	
Remote Control Switch Interface	/					
USB	5V 0.5A（Standard Configuration），5V 2A（Optional），QC3.0 18W（Optional）					

PURE SINE WAVE INVERTER

DF-MKL SERIES



Imported IGBT-MOS tube + imported Infineon chip

Maximum efficiency 90%.

Dual MCU microcontrollers
100% pure sine wave, sufficient power

Input under voltage protection, input over voltage protection, overload protection, short circuit protection, over temperature protection.

Intelligent silent fan automatically turns on and off the fan according to the load and internal temperature to quickly dissipate heat and cool down.

Datasheet

Model	300W	500W	600W	1000W	1500W	2000W	3000W
DC Input							
Rated Input Voltage	12V/24V/48V						
Maximum Eficiency	90%						
Battery Type	Lead acid/Lithium battery						
Rated Power	300W	500W	600W	1000W	1500W	2000W	3000W
AC Voltage	220V/110V						
Frequency	50Hz/60Hz						
Wave Form	Pure sine wave						
Input Protection	Anti-Reverse Connection（Battery）						
Warning Of Low Voltage	10.5V±0.5V（24V） *2（48V）*4						
Low Voltage Protection	10V±0.5V （24V） *2（48V）*4						
Low Voltage Recovery	12.4V±0.5V （24V） *2（48V）*4						
High Voltage Protection	15.0V±0.5V （24V） *2（48V）*4						
High Voltage Recovery	14.5V±0.5V （24V） *2（48V）*4						
Output Short Circuit Protection	After the fault is eliminated,it can be rebooted						
Overload Protection	120%≤Load,shut down immediately;						
Output Temperature Protection	Heat dissipation temperature>90℃						
Operating Environment	An Arid Environment						
Operating Temperature	0℃~40℃						
Humidity	0-80%						
Other							
Dimension(mm)	215*119*73	237*119*73	237*119*73	272*196*96	313*196*96	393*196*96	482*196*96
Remote Control Switch Interface	/						
USB	5V 2A						

MODIFY SINE WAVE HYBRID INVERTER

DF-MKL SERIES



Built-in MPPT/PWM controller

Realize real-time monitoring and efficient charging

Efficient temperature control and cooling in closed environments

Automatically identify device current and protect charging equipment

Datasheet

Model	DF-M03K(P10)		DF-M05K(P20)		DF-M08K(M30)	
DC Input						
Rated Input Voltage	12V	24V	12V	24V	12V	24V
Built In Controller	150W		300W		600W	
Controller Charge Control Mode	PWM		PWM		MPPT	
Recommended Solar Panel Specifications	100W~150W 18Vmp	100W~150W 36Vmp	250W~300W 18Vmp	250W~300W 36Vmp	500W~600W 36Vmp	
Solar Panel Input Voltage Range	15Vdc-22Vdc	30Vdc-45Vdc	15Vdc-22Vdc	30Vdc-45Vdc	15Vdc-60Vdc	
Maximum Input Power Of Solar Panel	180W		450W		720W	
Maximum Charging Voltage For Solar Panels	14.2Vdc	28.4Vdc	14.2Vdc	28.4Vdc	14.2Vdc	28.4Vdc
Maximum Eficiency	90%					
Battery Type	Lead acid/Lithium battery					
Rated Power	300W		500W		800W	
AC Voltage	220V/110V					
Frequency	50Hz/60Hz					
Wave Form	Trim a sine wave					
Input Protection	Anti-Reverse Connection（Battery）					
Warning Of Low Voltage	10.5V±0.5V（24V）*2（48V）*4					
Low Voltage Protection	10V±0.5V（24V）*2（48V）*4					
Low Voltage Recovery	12.4V±0.5V（24V）*2（48V）*4					
High Voltage Protection	15.0V±0.5V（24V）*2（48V）*4					
High Voltage Recovery	14.5V±0.5V（24V）*2（48V）*4					
Output Short Circuit Protection	After the fault is eliminated,it can be rebooted					
Overload Protection	110%≤Load<125%,5 S shutdown; 125%≤Load,shut down immediately;					
Output Temperature Protection	Heat dissipation temperature>90℃					
Operating Environment	An Arid Environment					
Operating Temperature	0℃~40℃					
Humidity	0-80%					
Other						
Dimension(mm)	159*120*72		179*120*72			
Remote Control SwitchInterface	/					
USB	5V 2A（Standard Configuration）, QC3.0 18W（Optional）					

ALL-IN-ONE CHARGER

POWER UP ANY BATTERY



- Overcurrent Protection
- Short-circuit Protection
- Smart Temperature Control
- Low Voltage Protection
- Overvoltage Protection
- Reverse Connection Protection

Datasheet

MODEL NUMBER	DC-30	DC-35	DC-40
Input voltage	AC110V/AC220V ±20V		
Frequency	50Hz/60Hz		
Output voltage	STD GEL AGM:14.8V 29.6V LiFeP04: 14.6V 29.2V		12V
Output current	12V(5A 10A 30A) 24V(5A 10A 15A)	12V(5A 10A 35A) 24V(5A 10A 18A)	5A 10A 20A 40A
Appropriate battery capacity	15AH-250AH	15AH-300AH	15AH-400AH
Appropriate battery type	STD GEL AGM LiFeP04		
Peak power	450W	500W	700W
Shell size	268*258*115mm		
Power line length	150cm		
Output line length	100cm		
Product Net Weight	About 2kg		

CAR BATTERY CHARGER

SOLAR BATTERY CHARGING SOLUTION

This charger is professionally designed and produced according to 12V/24V batteries such as lead-acid batteries, maintenance-free batteries, and starting batteries.



It adopts a dedicated intelligent microcomputer chip for full control, and uses charged pulse width modulation (PWM) technology. It has the advantages of small size, safe and easy to hold, high conversion rate,stable output current, large design capacity, and long term full load operation, and is a new generation of green environmental protection charger. With short circuit protection,reverse polarity protection,overheating protection arbitrary voltage protection can achieve stable, reliable and safe charging. Improve the battery power rate and reduce the battery water loss rate, eliminate the battery charging and drumming, and dry it from the outside to wash away the state of electricity, reduce the damage to the vulcanization of the electric oil plate, reduce the low debt, and greatly improve the service life of the battery!

CAR BATTERY CHARGER



DC-10/LEAD-ACID

1.CHARGING CURRENT: 12V(3A 5A 8A 10A.) OPTIONS /24V(2A 3A 4A 5A) OPTIONS
2.AUTOMATIC STOP WHEN FULL CHARGED
3.MULTI - STAGE CYCLIC CHARGING
4.AUTOMATICALLY THERMAL COMPENSATION



DC10-L(LS)/LITHIUM

1.CHARGING CURRENT: 12V(3A 5A 8A 10A.)
2.AUTOMATIC STOP WHEN FULL CHARGED
3.MULTI- STAGE CYCLIC CHARGING
4.AUTOMATICALLY THERMAL COMPENSATION



DC80

1.CHARGING CURRENT: 12V(4A-6A-8A) OPTIONS/24V(4A) OPTIONS
2.EQUIPPED WITH REPAIR FUNCTION, REVIVING THE BATTERY
3.AUTOMATIC STOP WHEN FULL CHARGED
4.MULTI - STAGE CYCLIC CHARGING



DC100

1.CHARGING CURRENT: 12V(6A-8A-10A) OPTIONS/24V(6A) OPTIONS
2.EQUIPPED WITH REPAIR FUNCTION, REVIVING THE BATTERY
3.AUTOMATIC STOP WHEN FULL CHARGED
4.MULTI - STAGE CYCLIC CHARGING



DC200PLUS

1. CHARGING CURRENT: 12V(5A-10A-20A) OPTIONS/24V(5A-10A) OPTIONS
2. EQUIPPED WITH REPAIR FUNCTION, REVIVING THE BATTERY
3. AUTOMATIC STOP WHEN FULL CHARGED
4. MULTI - STAGE CYCLIC CHARGING



DC250

1. CHARGING CURRENT: 12V(5A-10A-25A) OPTIONS/24V(5A-10A) OPTIONS
2. EQUIPPED WITH REPAIR FUNCTION, REVIVING THE BATTERY
3. AUTOMATIC STOP WHEN FULL CHARGED
4. MULTI-STAGE CYCLIC CHARGING

APPLICATION SCENARIOS



CAR BATTERY CHARGING



SOLAR ENERGY STORAGE SYSTEM



HOUSEHOLD /AGRICULTURAL BATTERY CHARGING



TRICYCLE / BATTERY CAR CHARGING

OUTDOOR POWER BANK
M9 SERIES

Rated Power
1200W



Max. 300W Solar Charging
(12V-55V)

Bidirectional
Fast Charging

BMS

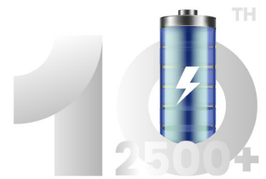
BMS

LiFePO4 Battery

2500 Times super long life

DEMUDA M9 has been fully upgraded to LFP (lithium iron phosphate) batteries, which have stronger thermal stability and a long cycle life of 2000 times.

*It can be used for almost 10 years with one c harge per day.

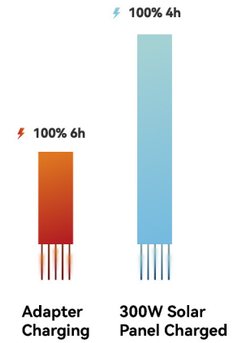


Faster Charging

4h	6h	10h
300W	200W	120W

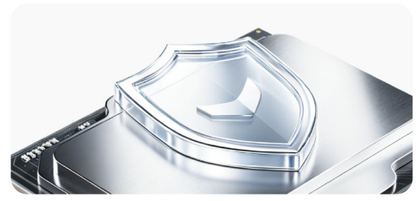
Flash charging anytime, anywhere: Connect the solar panel, and it can be fully charged in 4 hours at most.During driving, you can also use your car charging output port for charging.

*The solar charging time is 3.5 hours to 7 hours, depending on the sunlight conditions.



Intelligent Guardian

DEMUDA battery experts intensively research BMS (Battery Management System) technology.
54 protection algorithms + 8 intelligent protections, realize intelligent supervision of voltage, current and temperature, and give you a worry-free experience of using electricity with peace of mind



1 Year Warranty

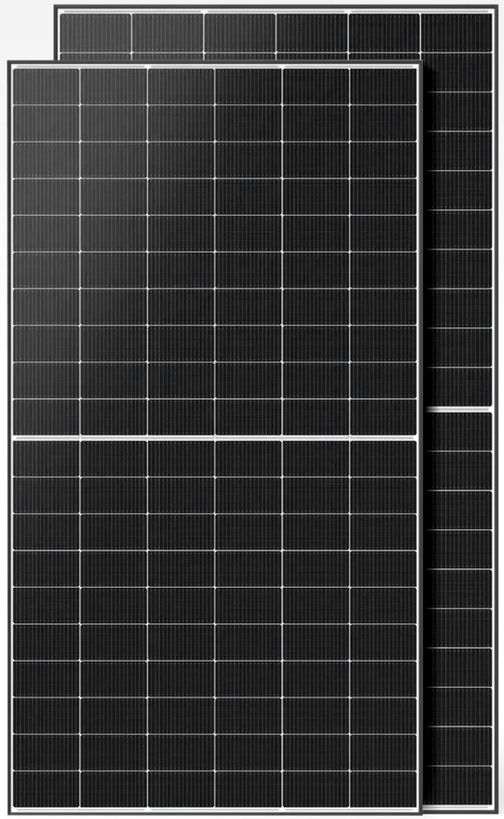
The newly upgraded 1-year warranty allows you to use electricity with more peace of mind



N TYPE MONO-CRYSTALLINE TOPCON SOLAR PANELS

DMD-MH72L-590W-610W

- Lower Power Teperature Coefficient and Broaden Spectral Response Enhance The Power Generation.
- TOPCON Multi Busbar Solar Half Cell Stronger Current Collection Ability.
- Excellent anti-LeTID, anti-PID performance, low power attenuation, high power output
- N-Type Cells, Higher Resistance, Better Weak Light Performance, Solar Gain ≥0.25%
- Better low-light performance, longer power generation time, and extremely low LID value



Datasheet

Model (DMD-MH72L-)	590W	595W	600W	605W	610W
Electric Characteristics (STC)					
Maximum Power-Pmax (Wp)	590	595	600	605	610
Open Circuit Voltage-Voc (V)	51.30	51.44	51.58	51.72	51.86
Short Circuit Current-Isc (A)	14.63	14.71	14.79	14.87	14.95
Maximum Power Voltage-Vmpp (V)	42.67	42.82	42.97	43.12	43.27
Maximum Power Current-Impp (A)	13.83	13.90	13.96	14.03	14.10
Module Efficiency (%)	22.8%	23.0%	23.2%	23.4%	23.6%
Module Efficiency W/M	228.3W	230.2W	232.2W	234.1W	236.0W
STC (Standard Testing Conditions): Irradiance 1000W/㎡, Cell Temperature 25 ℃, Spectra at AM1.5					
Electric Characteristics (NOCT)					
Maximum Power-Pmax (Wp)	444	448	452	456	460
Open Circuit Voltage-Voc (V)	48.74	48.88	49.02	49.16	49.30
Short Circuit Current-Isc (A)	11.82	11.89	11.96	12.03	12.10
Maximum Power Voltage-Vmpp (V)	39.93	40.05	40.17	40.29	40.41
Maximum Power Current-Impp (A)	11.11	11.19	11.25	11.32	11.42
NOCT (Nominal Operating Cell Temperature): Irradiance 800W/㎡, Ambient Temperature 20℃, Spectra at AM1.5, Wind at 1m/S					
Mechanical Data					
Solar Cells	TOPCON Monocrystalline 182x91mm				
Number Of Cells	144 cells				
Module Dimensions(L*W*H)	2279±2x1134±2x30±1mm				
Glass	Tempered 2.0mm AR, High transmittance, Low iron				
Encapsulant Material	POE/EVA				
Backsheet	Tempered 2.0mm AR, High transmittance, Low iron				
Frame	30mm Anodized Aluminium Alloy				
Junction Box	IP68/1500V/25A				
Output Wire	4.0mm², Length: 300mm				
Connector	MC4 Compatible				
Weight	31.5kg				
Packging configureation (Container 40HQ)	Quantity/pallet: 36 pieces Pallet/container: 20 pallets Quantity/container: 720 pieces				
Temperature Ratings					
Nominal Operating Cell Temperature	44±2℃				
Temperature Coefficient Of PMax	-0.29%℃				
Temperature Coefficient Of Voc	-0.25%℃				
Temperature Coefficient Of Isc	+0.04%℃				

DEMUDA ZERO-CARBON HOME

Light Up Millions of Homes Worldwide



Residential Off grid System 30KWH Battery
N Type Mono-Crystalline TOPCON Module



Residential Energy Storage System
10KWH Battery



Residential Off-grid System
10KWH Battery



Residential Off-grid System
5KWH Battery / 6.2kW Hybrid Solar Inverter



Residential Energy Storage System
15KWH Battery /
Hybrid Solar Inverter M



Factory 25KW Off-Grid Proiect HV Rack Mount Battery 20KWH NType
Mono-Crystalline TOPCON Module

GLOBAL POWER STATION CASES

Unleash a New Era of PV & Energy Storage



Factory Hybrid System
3-Phase 100KW Inverter / 157KWH Battery.



Solar energy storage diesel ac/dc integrated cabinet
battery +pcs+mppt +diesel generator interface up to 10 units in parallel (hybrid)



AC/DC INTEGRATED CABINET FOR C&I SYSTEMS
Battery+Pcs+Mppt+ Diesel Generator Interface (Hybrid)



Tangyao Limited Off-Grid System N Type Mono-Crystalline TOPCON Module Power Output
100-120KWH Per Day



North America Dairy Farm Hybrid System3-Phase 100kw Inverter
215kwh Battery

BASED IN CHINA, SERVING THE WORLD

showcase Innovative Products And Welcome Global customers.























DEMUDA

WHERE THERE'S SUNSHINE THERE'S DEMUDA