

POWERING YOUR LIFE

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Note : The technical data mentioned may be updated or revised due to product development.The data in this brochure is subject to change without notice.The latest datasheet and catalog can be acquired via sales@deye.com.cn

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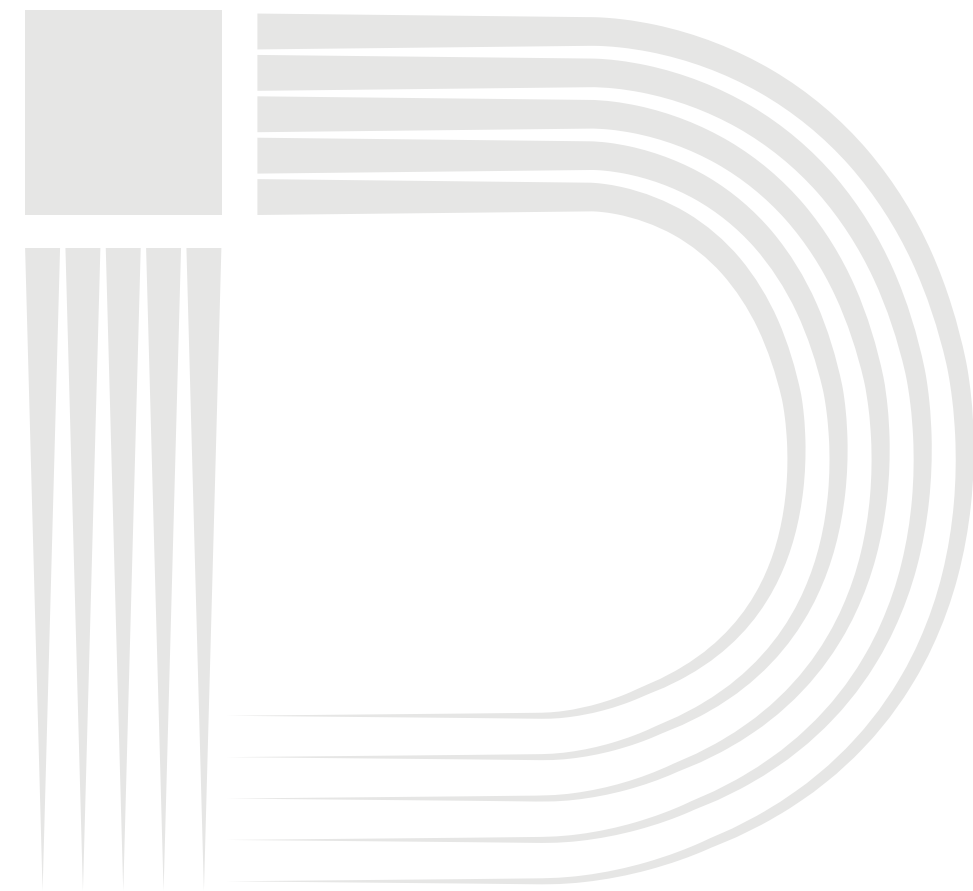
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(GLOBAL)

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WORLD LEADING

ENERGY STORAGE SYSTEM
SOLUTIONS PROVIDER

01



Spring Series

RW-F5.3-1H3 (EU, AS, AF, LATAM)

Technical Data

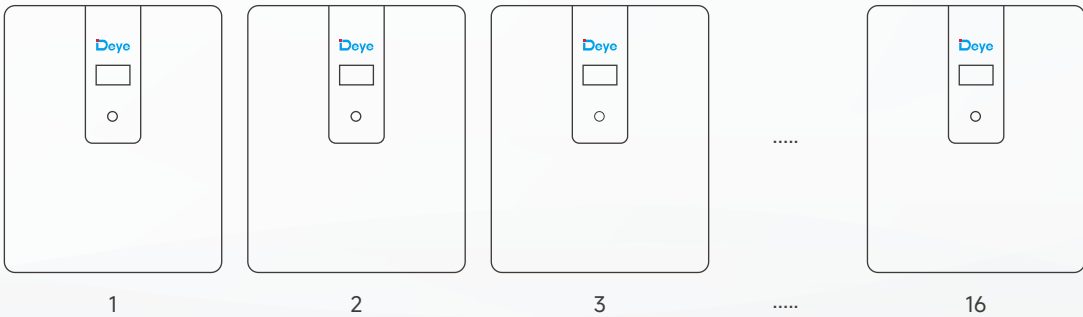


AC Technical Specification	
Model	RW-F5.3-1H3
Rated AC Input / Output Active Power (W)	5000 / 5000
Max AC Input / Output Apparent Power (VA)	5500
Peak Power (off grid)	2 time of rated power, 10s
AC Output Rated Current (A)	22.8 / 21.8
Max. AC Current (A)	25 / 24
Max Continuous AC Passthrough (grid to load) (A)	35
Rated Input / Output Voltage / Range (V)	220V / 230, 0.85Un-1.1Un
Rated Input / Output Grid Frequency/Range (Hz)	50Hz / 45Hz ~ 55Hz, 60Hz / 55Hz ~ 65Hz
Grid Connection Form	L+N+PE
Power Factor	0.8 leading to 0.8 lagging
Total Harmonic Distortion (THDi)	<3% (of nominal power)
DC injection current (mA)	<0.5% In

DC Technical Specification	
Max. PV Access Power (W)	10000
Max. PV Input Power (W)	8000
Max. PV Input Voltage (Vdc)	500
Start Up PV Voltage (Vdc)	125
MPPT Voltage Range (Vdc)	150 ~ 425
Full Load MPPT Voltage Range (Vdc)	300 ~ 425
Rated PV Input Voltage (Vdc)	370
Max. Operating PV Input Current (A)	18+18
Max. PV Input Short-circuit Current (A)	27+27
Number of MPP Trackers	2
No. of Strings Per MPP Tracker	1 + 1
Battery Chemistry	LiFePO4
Battery Nominal Voltage (V)	51.2
Battery Energy Configuration (kWh)	5.32
Max. Charging / Discharging Current (A)	100
Battery Operating Voltage (V)	44.8 ~ 57.6
Battery Cycle Life	≥6000 (@25°C±2°C, 0.5C / 0.5C, 70%EOL)

Other Technical Specification	
Model	RW-F5.3-1H3
Dimension (W × D × H, mm)	616 × 191 × 690 (Excluding connectors and brackets)
Weight Appr. (kg)	71
IP Rating of Enclosure	IP65
Operating Temperature Range (°C)	-10°C ~ 55°C
Permissible Ambient Humidity	0~100%
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II (DC), OVC III (AC)
Type Of Cooling	Natural Cooling
Noise (dB)	<30
Display	Touch LCD
Monitor Mode	WiFi, Bluetooth
Installation Style	Wall-Mounted, Floor-Mounted
Max. Efficiency	97%
Max. charging / discharging Efficiency	95.5%
MPPT Efficiency	>99%
Safety EMC / Standard	IEC / EN 61000-6-1 / 2 / 3 / 4 , IEC / EN 62109-1, IEC / EN 62109-2
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Certification	UN38.3, CE, CB, IEC62619
Warranty Period	5/10 years (the Warranty Period Depends on the Final Installation Site. More Info Please Refer to Warranty Policy)

Maximum support for 16 units in parallel	
RW-F5.3-1H3	80kW/84.8kWh



AI-W5.1-B-ESS (EU, NA, AU)

Technical Data

Model	AI-W5.1-3.6P1-EU-B	AI-W5.1-5P1-EU-B	AI-W5.1-6P1-EU-B	AI-W5.1-7P1-EU-B	AI-W5.1-7.6P1-EU-B	AI-W5.1-8P1-EU-B	AI-W5.1-10P1-EU-B							
Battery Input Data														
Battery Type	Lithium-ion													
Battery Voltage	40~60													
Max. Charging Current(A)	90	120	135	175	190	190	210							
Max. Discharging Current(A)	90	120	135	175	190	190	210							
Charging Strategy for Li-Ion Battery	Self-adaption to BMS													
Number of Battery Input	1													
PV String Input Data														
Max. PV access power(W)	7200	10000	12000	14000	15200	16000	20000							
Max. PV Input Power(W)	5760	8000	9600	11200	12160	12800	16000							
Max. PV Input Voltage(V)	500													
Start-up Voltage(V)	125													
PV Input Voltage Range(V)	125~500													
MPPT Voltage Range(V)	125~425													
Full Load MPPT Voltage Range(V)	300~425		200~425			250~425								
Rated PV Input Voltage(V)	370													
Max. Operating PV Input Current(A)	18+18		32+32											
Max. Input Short-Circuit Current(A)	27+27		48+48											
No.of MPPT Trackers/No.of String MPPT Tracker	2/1+1		2/2+2											
Max. Inverter Backfeed Current to The Array	0													
AC Input/Output Data														
Rated AC Input/Output Active Power(W)	3600	5000	6000	7000	7600	8000	10000							
Max. AC Input/Output Apparent Power(VA)	3960	5500	6600	7700	8360	8800	11000							
Peak Power (off-grid)(														

GB-SL (EU, AU) & GB-SL Pro (EU)

Technical Data



Battery Technical Specification						
Battery Model		GB-SL & GB-SL Pro				
Main Parameters						
Battery Type		LiFePO ₄				
Battery Module Energy (kWh)		4				
Battery Module Nominal Voltage (V)		102.4				
Battery Module Capacity (Ah)		40				
Battery Module Qty in Series (Optional)		2	3	4	5	6
Scalability		204.8	307.2	409.6	512	614.4
System Operating Voltage (V)		179.2~691.2				
System Energy (kWh)		8	12	16	20	24
System Usable Energy (kWh)		7.36	11.04	14.72	18.4	22.08
Charge / Discharge Current (A) ^[2]	Recommend	20				
	Max.	40				
	Peak (25°C)	50@2min				
Other Parameters						
Operating Temperature (°C)		GB-SL: Charge : 0~55 / Discharge : -20~60				
		GB-SL Pro: Charge : -20~55 / Discharge : -20~55				
Thermal Management		Natural Cooling				
Communication Port		CAN2.0 / RS485				
Humidity		5 ~ 85%RH				
Altitude		≤ 2000				
IP Rating of Enclosure		IP65				
Noise (dB)		< 55				
Module Dimension (W × H × D, mm)		540 × 385 ×	540 × 385 ×	540 × 385 ×		

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