



All-In-One Stackable Battery

20kWh+11.4kW



FLEXIBILITY

Modular design to meet various backup scenarios.



EASY INSTALLATION

Integrated configuration, plug and play set-up.



TYPE 4X

Engineered to last with maximum flexibility.
Suitable for outdoor installation.



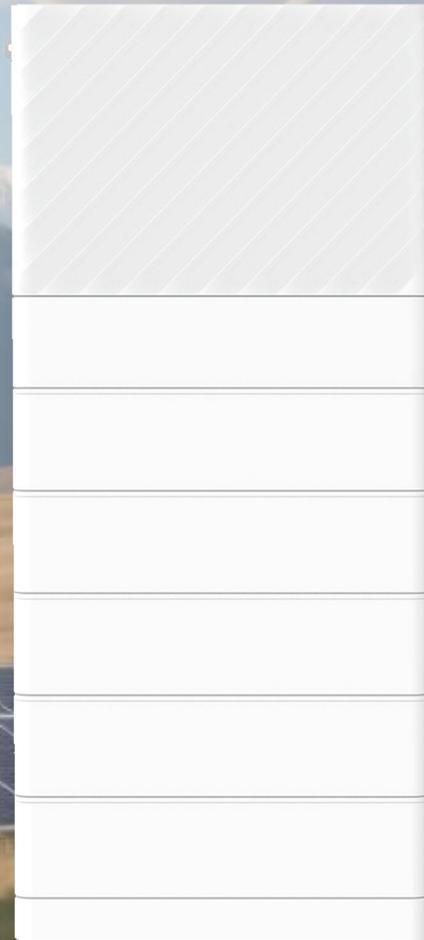
REMOTE MONITORING

Monitor your system remotely via smartphone app
or web portal.



BATTERY WARMING

Supports -25 ~ 55 °C / -13 ~ 131 °F operating
temperature range.



CONTACT US

Quantum Charge

9627 Klingerman St South El Monte, CA 91733 United States

DATASHEET

Model	28kWh/P-AHUS-EY-CD
PV INPUT (ONLY FOR HYBRID)	
Max. Solar STC Power [W]	22800
Max. Input Voltage [V]	600
Start-up Input Voltage [V]	100
Rated Input Voltage [V]	380
MPPT Operating Voltage Range [V]	80 - 550
MPPT Operating Voltage Range [V]	305 ~ 500
Max. Input Current [A]	28/14/14
Max. Short-circuit Current [A]	44/22/22
No. of Independent MPP Trackers	3
No. of Strings per MPP Tracker	2/1/1
BATTERY CONNECTION	
Battery Type	Lithium Battery (LFP)
Battery Voltage Range [V]	85 ~ 460
Rated Battery Voltage [V]	360
Max. Continuous Charge / Discharge Current [A]	50
Max. Continuous Charge / Discharge Power [W] (for H1)	17100/12540
Max. Discharge Current (60s) [A]	60
AC INPUT AND OUTPUT (GRID)	
Max. AC Input Power [VA]	11400
Max. AC Input Current [A]	48
Input Voltage Range [V]	211 ~ 264
Input Frequency Range [Hz]	57 ~ 63
Rated Output Power [W]	11400
Max. Output Apparent Power [VA]	11400
Rated Output Current [A]	47.5
Max. Output Current [A]	47.5
Rated Grid Voltage [V]	240 (211 ~ 264)
Rated Grid Frequency [Hz]	57 - 63
Power Factor	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)
THDi [%]	<3 @rated power
AC OUTPUT (BACKUP)	
Rated Output Power [W]	11400
Rated output power @different batteries [W]	5760 @H2 Battery 8640 @H3 Battery 11400 @H4 Battery 11400 @H5 Battery 11400 @H6 Battery (only for Canada) 11400 @H7 Battery (only for Canada)
Max. Output Apparent Power [VA]	12540
Peak Output Apparent Power [VA]	13680
Peak Output Apparent Power [VA]	15390

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Max. Continuous Output Current [A]	52.3
LRA [A]	160
Rated Output Voltage [V]	120/240
Rated Output Frequency [Hz]	60
Load Start Capacity [A] LRA	50@H2Battery 75@H3Battery 110@H4Battery 160@H5Battery
THDv (Linear Load) [%]	<3@ratedpower
Imbalance for Split-Phase Loads [%]	100
EFFICIENCY	
CEC Efficiency [%]	97.00
Max. Efficiency [%]	97.60
Max. Battery Discharge Efficiency (BAT to AC) (@full load, 340Vdc) [%]	97.40
PROTECTION	
Insulation Monitoring	YES
Residual Current Monitoring	YES
DC Reverse Polarity Protection	YES
Anti-islanding Protection	YES
AC Short-circuit Protection	YES
AC Overcurrent / Overvoltage Protection	YES
DC Switch	YES
SPD	DC:TypeII/AC:TypeII
AFCI	YES
GENERALDATA	
Dimensions (H*W*D) [inch / mm]	22.4*20.2*15.0/570*512*380
Weight [lbs / kg]	112.4/51
Topology	Transformerless
Cooling Method	Naturalconvection
Noise Emission [dB]	<35
Max. Operating Altitude [ft / m]	9843/3000 (Deratingabove6560/2000)
Operating Temperature [°F / °C]	-13 ~ +131/-25 ~ +55 (Derating above 104/40)
Humidity [%]	0~100 (No Condensation)
Protection Degree	Type 4X
Standby consumption [W]	<25
Monitoring Module	WiFi, LAN
Communication	CAN2.0, RS485, Meter, CT, ISOalarm, SUNSPEC
Display	LED, App, Website
Warranty [Year]	12.5
STANDARD COMPLIANCE(MOREAVAILABLEUPONREQUEST)	
Safety	UL 1741 SA, UL 1741 SB, UL1741 CRD, HECO SRD-V2.0, CSA C22.2 No.107.1-16, UL1998, UL1699B, Rule21
EMC	FCC part15 CLASSB
Grid Regulation	IEEE1547-2018, IEEE1547a-2020, IEEE1547.1-2020

DATASHEET

Model	EQ4K-3.97kWh					
ELECTRICAL CHARACTERISTICS						
Battery Type	LFP (LiFePO4)					
Battery Module	2	3	4	5	6	7
Nominal Capacity [kWh]	7.95	11.92	15.9	19.87	23.85	27.82
Nominal Voltage [V]	115.2	172.8	230.4	288	345.6	403.2
Operating Voltage [V]	97.2 ~ 131.4	145.8 ~ 197.1	194.4 ~ 262.8	243 ~ 328.5	291.6 ~ 394.2	340.2 ~ 459.9
Max. Charge / Discharge Current [A]	50					
Peak Discharge Current [A]	65 @60sec					
Round-trip Efficiency [%]	>95					
Depth of Discharge [%]	90					
Communication	CAN					
Scalability	Max. 5 Modules in Series					
OPERATING CONDITIONS						
Installation Location	Outdoor / Indoor (Stand)					
Operating Temperature [°F / °C]	-13 ~ +131 / -25 ~ +55 (Derating above 104 / 40)					
Storage Temperature [°F / °C]	-4 ~ +131 / -20 ~ +55					
Cooling Method	Natural Convection					
Humidity [%]	0 ~ 100 (No Condensing)					
Altitude [m / ft]	Max. 2,000 / 6,560					
MECHANICAL CHARACTERISTICS						
Dimensions[W*H*D][mm]	570*330 *380	570*420 *380	570*540 *380	570*660 *380	570*780 *380	570*900 *380
[inch]	22.4*13.0 *15.0	22.4*16.5 *15.0	22.4*21.3 *15.0	22.4*26.0 *15.0	22.4*30.7 *15.0	22.4*35.4 *15.0
Weight [kg/ lbs]	71.5 / 157.6	106.5 / 234.8	141.5 / 312	176.5 / 389.1	211.5 / 466.3	246.5 / 543.4
CERTIFICATES						
Safety	UL1973, UL9540, UL9540A					
Transportation	UN38.3					
Ingress Protection	IP65					
WARRANTY						
Standard Warranty [year]	12.5					