



# PYLONTECH

## H48074

### High voltage lithium battery

#### H48074 - 3.55kWh Modules

Pylontech's H48074 lithium batteries represents the latest technological frontier for high voltage storage applications. The simplicity and modularity of the H48074, make it an ideal component for creating storage systems of small and large capacities, which can be expanded according to current and future energy needs.



LiFePO4 battery technology also has the following **benefits**:

- **Longer Life cycle**, which exceeds 5000 cycles, corresponding to about 11 years of work, with an 80% end-of-life capacity;
- The internal **molecular structure** of LiFePO4 batteries is **more stable** and **safer**;
- Depth of discharge up to 95%;
- **Easy expansion** to increase the power of storage;
- A **Compact and modular design** for easy installation / upgrade;
- Ability to operate under different temperature conditions;
- **Advanced BMS** that allows you to report alarms in real time.
- **Monitoring and assistance included.**



**SC0500-40S-V2** Control module  
Related product: PowerCube X1-X2 V2, PowerCube H1-H2 V2



**SC0500-100S-V2 / SC1000-100S-V2** Control module  
Related product: PowerCube X1-X2 V2, PowerCube H1-H2 V2

<b>Battery Model</b>		<b>H48074</b>
Item code	90040201	
<b>ELECTRICAL DATA</b>		
Cell technology	Li-ion (LFP)	
Nominal voltage [V] (single module)	48	
Nominal capacity [kWh/Ah] (single module)	3.552 / 74	
Depth of discharge DOD [%]	95	
Current [A]	37 (nominal) - 74 (max)	
Charge voltage [V, min.-max.]	43.5 ~ 54	
<b>BUS</b>		
Communication Bus	RS232, CAN	
Communication protocol	YD/T 1363.3-2005	
<b>GENERAL DATA</b>		
Dimension [WxHxD, mm]	442x132x390	
Weight [kg]	32	
Charge/ discharge operation temperature [°C]	0 ~ 50	
Storage Temperature [°C]	-20 ~ 60	
Protection Class	IP20	
Operation Life at 25 °C [years]	15+	
Life Cycles	5000	
Backup time [Nominal power 500 W]	≥ 5 h	
Duration of charge maintenance	6 months with off battery	
Transfer certificate	UN38.3, UN 3090	
EMC	IEC 61000, EN 55022, GR-1089, GB/T 2423, TÜV, CE, TLC	

Note: When choosing the number of modules to connect inside the rack, make sure that the resulting DC voltage is within the operating range of the inverter.  
For the selection of 19" racks sizes, please refer to the available documentation.



GR-1089, UN 3090, EN55022, GB/T 2423

<b>BMS Control Module</b>	<b>SC0500-40S-V2</b>	<b>SC0500-100S-V2</b>	<b>SC1000-100S-V2</b>
Item code	90040272	90040273	90040274
<b>ELECTRICAL DATA</b>			
Related product	PowerCube X1-X2 V2, PowerCube H1-H2 V2		
Battery modules quantity [pcs]	up to 10		up to 18
Self-consumption power [W]	8		
Operating voltage [Vdc]	60~600		200~1000
System working voltage [Vdc]	60~600		200~1000
Discharge voltage [Vdc]	60~600		200~1000
Max. Charging current [A]	40		80
Communication	Modbus RTU\CAN\LAN		
<b>GENERAL DATA</b>			
Dimension [WxHxD, mm]	442x87x390		442x132x390
Weight [kg]	7		9
Operating temperature [°C]	-20~65		
Storage temperature [°C]	-40~80		
Protection Class	IP20		
Design Life [years]	15+		
Transport certificate	UN38.3		
Certification	TUV, CE		

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