

MICROPOWER

LionPACK



MICROPOWER GROUP[™]

LionPACK ONE – Lithium-ion Battery System for Industrial Applications

Product Datasheet

The purpose of this document is to provide a high-level summary of the product and its main technical characteristics.

1. Product specifications, 24V LionPACK ONE

Model	24V-W7X2-4.2	24V-W7X2-5.8	24V-W7X2-8.4	24V-W7X2-11.6	24V-L7X2-17.4	24V-L7X2-23.2
Part number	6330062	6330058	6330063	6330055	6330051	6330054
Electrical & System specifications						
Voltage (Min/Nom/Max)	21/25.2/28					
Nominal Energy (kWh)	4.2	5.8	8.4	11.6	17.4	23.2
Nominal Capacity (Ah)	166	230	332	460	690	920
Usable Capacity (Ah), UL certified	117	162	234	324	486	648
Continuous power (kW)	3.7	5.2	7.5	7.6	7.6	7.6
Fuse Protection (A)	200	200	400	400	400	400
Continuous Charge Current (A)	119	164	238	328	400 ^a	400 ^a
Continuous Discharge Current (A)	84	115	166	230	300	300
Mechanical specifications						
Dimension (L x W x H in mm)	645x256x590	645x256x590	645x256x590	645x256x590	805x379x595	805x379x595
Weight (kg)	135	135	135	135	227	227
Enclosure specifications						
Power Terminal Type	Rebling MTF 500A M8					
Power Terminal Torque	Rec 10Nm ± 1Nm					
Designed Ingress Protection	IP54					
Communication Connector	Molex 150L					
Casing	Robust 10-14 Gauge Steel Enclosure, RAL 9005					
Operational specifications						
Cycle Life at 25 °C	5000 cycles, 8-year warranty					
Charge Temperature (°C) ^b	0 to 40					
Discharge Temperature (°C) ^b	-20 to 40					
Storage Temperature (°C)	0 to 55					
Humidity (storage) (%)	<60					
Safety & Performance						
UL1642, UL2580 UN 38.3/ADR, IEC626219, IEC62620 EN1175, ISO13849						

^a Pending UL2580 certification.

^b Operating temperature range is limited by UL2580 certification.

2. Product specifications, 36V LionPACK ONE

Model	36V-L7X4-16.5	36V-W10X4-16.5	36V-L7X6-24.8	36V-W10X4-24.8	36V-L7X8-33.1	36V-W10X4-33.1
Part number	6330061	6330064	6330065	6330066	6330067	6330042
Electrical & System specifications						
Voltage (Min/Nom/Max)	30/36/40					
Nominal Energy (kWh)	16.5	16.5	24.8	24.8	33.1	33.1
Nominal Capacity (Ah)	460	460	690	690	920	920
Usable Capacity (Ah), UL certified	324	324	486	486	648	648
Continuous power (kW)	10.8	10.8	10.8	10.8	10.8	10.8
Fuse Protection (A)	400	400	400	400	400	400
Continuous Charge Current (A)	328	328	400 ^a	400 ^a	400 ^a	400 ^a
Continuous Discharge Current (A)	300	300	300	300	300	300
Mechanical specifications						
Dimension (L x W x H in mm)	645x256x590	645x256x590	645x256x590	645x256x590	805x379x595	805x379x595
Weight (kg)	135	135	135	135	227	227
Enclosure specifications						
Power Terminal Type	Rebling MTF 500A M8					
Power Terminal Torque	Rec 10Nm ± 1Nm					
Designed Ingress Protection	IP54					
Communication Connector	Molex 150L					
Casing	Robust 10-14 Gauge Steel Enclosure, RAL 9005					
Operational specifications						
Cycle Life at 25 °C	5000 cycles, 8-year warranty					
Charge Temperature (°C) ^b	0 to 40					
Discharge Temperature (°C) ^b	-20 to 40					
Storage Temperature (°C)	0 to 55					
Humidity (storage) (%)	<60					
Safety & Performance						
UL1642, UL2580 UN 38.3/ADR, IEC626219, IEC62620 EN1175, ISO13849						

^a Pending UL2580 Certification

^b Operating temperature range is limited by UL2580 certification.

3. Product specifications, 48V LionPACK ONE

Model	48V-L7X2-11.6	48V-L7X4-23.2	48V-L7X6-34.8	48V-L7X8-46.4
Part number	6330056	6330060	6330043	6330059
Electrical & System specifications				
Voltage (Min/Nom/Max)	42/50.4/56			
Nominal Energy (kWh)	11.6	23.2	34.8	46.4
Nominal Capacity (Ah)	230	460	690	920
Usable Capacity (Ah), UL certified	162	324	486	648
Continuous power (kW)	10.1	15.1	15.1	15.1
Fuse Protection (A)	200	400	400	400
Continuous Charge Current (A)	164	328	400 ^a	400 ^a
Continuous Discharge Current (A)	205	300	300	300'
Mechanical specifications				
Dimension (L x W x H in mm)	645x257x592	806x379x595	806x559x582	798x740x574
Weight (kg)	135	227	333	435
Enclosure specifications				
Power Terminal Type	Rebling MTF 500A M8			
Power Terminal Torque	Rec 10Nm ± 1Nm			
Designed Ingress Protection	IP54			
Communication Connector	Molex 150L			
Casing	Robust 10-14 Gauge Steel Enclosure, RAL 9005			
Operational specifications				
Cycle Life at 25 °C	5000 cycles, 8-year warranty			
Charge Temperature (°C) ^b	0 to 40			
Discharge Temperature (°C) ^b	-20 to 40			
Storage Temperature (°C)	0 to 55			
Humidity (storage) (%)	<60			
Safety & Performance				
UL1642, UL2580 UN 38.3/ADR, IEC626219, IEC62620 EN1175, ISO13849				

^a Pending UL2580 certification

^b Operating temperature range is limited by UL2580 certification.