

# Peak Power Pack

www.victronenergy.com

A lithium-ion battery pack with intrinsically safe LiFePO4 cells, a built-in charger, and which is suitable for excessive discharge current.

**Nominal voltage: 12.8V**

**Battery capacity: 8Ah to 40Ah**

**Lightweight and easy to install**

- Ideal for mobile applications.

**Effective protection against improper use**

- Ideal for solar power and other applications where excessive discharge might quickly cause damage to lead acid batteries.

**Output 1 "mover": high capacity output for caravan manoeuvring systems and other applications that are energy-intensive**

- Ideal for caravan manoeuvring systems (caravan movers).
- The 8Ah version is meant for lighter caravans. 20Ah or more is recommended for caravans above 1000kg.
- Short-circuit proof.
- Protected against excessive battery discharge.

**Output 2 "domestic": for low DC loads (not available for the 8Ah model)**

- Intended for lighting, audio and video, pumps, fridges.
- Short-circuit proof.
- Protected against excessive battery discharge.

**Input 1 "car/solar": charging while driving or charging with a solar panel.**

- Equipped with voltage and current control for safe charging of the lithium-ion battery. In fact, any source of electric power can be connected to this input (e.g. a dynamo or a battery charger), as long as  $11V < V_{in} < 25V$ . The current limitation is automatically set to a safe value.

**Input 2 "adapter": the adapter supplied can be connected to this input**

- Battery charging current: 3A, and suitable for 110/230V power supply.

**Rapid charging is possible via output 1 (high capacity output), only with 30Ah and 40Ah models**

- A battery charger or transformer/charger can be connected to the high capacity output. The maximum charging current is 15A and 20A respectively and the recommended charging current 14V (maximum 14.2V).

**Storage mode**

- Reduces power consumption to almost zero. Prevents damage by excessive discharge of the battery during storage.

**Remote control with status indicator**

- Push button (supplied) with a dual-colour LED status indicator:
  - o Short push of the button: high capacity output activated for 30 minutes (mover applications), LED red.
  - o Hold down for 2 seconds: high capacity output always activated, LED red, slow flashing.
  - o Hold down for 5 seconds: storage mode, LED blue, flashes 10 times.
  - o Battery is charged via input 1, LED blue, slow flashing.
  - o Battery fully charged, LED blue.
  - o Overload or overheating, LED red, flashes.

**VE.Direct port: can be connected to a PC or smartphone**

('VE.Direct to USB' or 'VE.Direct Bluetooth Smart dongle' required)

- Operation:
  - o Output 1: on / 30-minute timer / off
  - o Output 2: on/off
  - o Input 1: on/off
- Scanning:
  - o Battery voltage
  - o Temperature and alarms



12.8 V, 8Ah



12.8 V, 20Ah



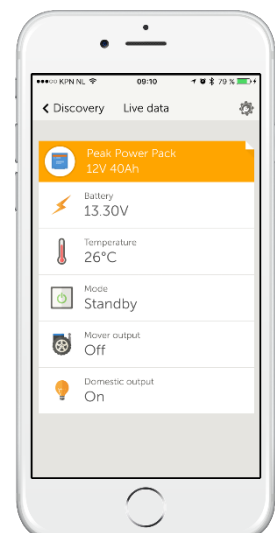
12.8 V, 30Ah



12.8 V, 40Ah



High capacity output (mover) and low capacity output (domestic)



Peak Power Pack	PPP-8	PPP-20	PPP-30	PPP-40
Capacity	8Ah	20Ah	30Ah	40Ah
Stored energy	102Wh	256Wh	384Wh	512Wh
Battery type	Lithium-ion (LiFePO4)			
Nominal voltage	12.8V			
Self-discharge when activated	< 13 Ah /year (< 1.4 mA)			
Self-discharge in storage mode	< 6.5 Ah /year (< 0.7 mA)			
<b>Output 1: high capacity "mover"</b>				
Continuous output current	150A			
Maximum output current (10 seconds)	200A			
Short-circuit current	300A			
Safety features	Overload / short-circuiting / temperature / excessive discharge			
Maximum charging current	n.a.	n.a.	15A (no protection)	20A (no protection)
Recommended charging voltage	14V (no protection)			
Maximum charging voltage	14.2V (no protection)			
Maximum cable diameter	16mm <sup>2</sup> (screw clamps)			
<b>Output 2: on-board power network "domestic"</b>				
Continuous output current	n.a.	30A		
Maximum output current (10 seconds)	n.a.	50A		
Short-circuit current	n.a.	80A		
Safety features	n.a.	Overload / short-circuiting / temperature / excessive discharge		
Maximum charging current	n.a.	n.a.	10A (no protection)	10A (no protection)
Recommended charging voltage	n.a.	14V (no protection)		
Maximum charging voltage	n.a.	14.2V (no protection)		
Maximum cable diameter	n.a.	6mm <sup>2</sup> (screw clamps)		
<b>Input 1: "car/solar"</b>				
Input voltage range	11 V < Vin < 25 V			
Current limitation	7A			
<b>Input 2: "adapter"</b>				
Output voltage	15V			
Output current	3A			
Input voltage	110 / 230 V 50 / 60 Hz			
<b>General</b>				
Operation	Multifunctional push-button with dual-colour LED			
VE.Direct port	Communication with a smartphone (VE.Direct Bluetooth Smart-dongle required) Connection to a PC (VE.Direct to USB cable required)			
Operating temperature	Battery charging: 0°C to 40°C Battery discharge: -20°C to +40°C Storage: -20°C to +40°C (charging and discharging not possible outside the given temperature range)			
Humidity (no condensation)	Max. 95%			
Weight	2.2kg	3.8kg	5.4kg	8.6kg
Dimensions (h x w x d)	92 x 190 x 172 mm	132 x 190 x 172 mm	172 x 190 x 172 mm	212 x 190 x 172 mm
<b>Standards</b>				
Safety	NEN-EN-IEC 60335-1, NEN-EN-IEC 60335-2-29, NEN-EN-IEC 62109-1			
Emission / Immunity	NEN-EN 55014-1, NEN-EN 55014-2, NEN-IEC 61000-3-2, NEN-IEC 61000-3-3, NEN-EN 50498			



Adapter and input vehicle / solar panel (car/solar)  
(socket for the car/solar input comes supplied)



VE.Direct and push-button



Fixing strap  
Adapter  
Power cable  
Push-button with cable (2m) and dual-colour LED