# LINVICTA HYBRID STARTER

# SNLHLN4MAX SPECIFICATION SHEET



### **About Invicta Hybrid Starter**

The Invicta Hybrid Starter range is ideally suited to starting applications that may have a secondary deep cycle application, such as fridge or marine accessories. The family is comprised of the popular sizes found in automotive vehicles but with the added benefits of Lithium Iron Phosphate (LiFePO4) pouch cell technology, which allows flexibility in charging and discharge.

### **Features & Benefits**

#### Australian owned

Invicta is Australian owned and backed by over 25 years of knowledge. The Invicta Hybrid Starter range has also undergone over 2 years of pre-release development by our Australian technical team.

# • Dual - BMS

A specially engineered Dual BMS allows the battery to discharge and charge at an even high rate. This allows the battery to be used in winching applications

# • Pouch cell construction

The pouch cell construction is specifically used due to its inherent starting abilities which allows for a high-rate of discharge and flexibility when charging.

# Charge directly from the alternator

The cell design and BMS allow for the varying types of charge delivered by alternators.

# Heat resistant technology

Utilises a specially designed thermal protection layer to reduce the impact of heat on the internals.

# • Jump start feature

A small percentage of capacity is reserved automatically for jump start if you drain the battery. Easily engage this feature with the push of a button.

# • 3 Year full replacement warranty

The Invicta Hybrid Starter range has a 3 year full replacement warranty backed by SPB.

Nominal Voltage         12.8v           Nominal Capacity (25°C, 0.33C)         60Ah           Terminal         SAE           Length (mm)         315 ± 2mm           Width (mm)         174 ± 2mm           Height (mm)         190 ± 2mm           Weight         8.3kg           Max Charge Voltage         14.6 ± 0.1V           Charge Cut-Off Voltage         8V           Max. Discharge Current         800A           Max. Pulse Discharge Current (3 sec)         2100A           Cold Cranking Amps         1400A           Max. Charge Current         ≤ 30A           Recommended Charge Current         ≤ 30A           Cycle Life (100% DoD)         ≥ 2000           Operating Temp - Charge         -20 - 45°C           Operating Temp - Discharge         -20 - 60°C           BMS High Temp Disconnect         80°C           Max. Parallel Configuration         6P           Jump Start Feature         Yes           IP Rating         56           Certifications         IEC62133, UN38.3		
TerminalSAELength (mm)315 ± 2mmWidth (mm)174 ± 2mmHeight (mm)190 ± 2mmWeight8.3kgMax Charge Voltage14.6 ± 0.1VCharge Cut-Off Voltage8VMax. Discharge Current800AMax. Pulse Discharge Current (3 sec)2100ACold Cranking Amps1400AMax. Charge Current€ 30ACycle Life (100% DoD)≥ 2000Operating Temp - Charge-20 - 45°COperating Temp - Discharge-20 - 60°CBMS High Temp Disconnect80°CMax. Parallel Configuration6PJump Start FeatureYesIP Rating56	Nominal Voltage	12.8v
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Charge Cut-Off Voltage  Discharge Cut-Off Voltage  Max. Discharge Current  800A  Max. Pulse Discharge Current (3 sec)  Cold Cranking Amps  1400A  Max. Charge Current  600A  Recommended Charge Current  ∠30A  Cycle Life (100% DoD)  ⊃2000  Operating Temp - Charge  Operating Temp - Discharge  -20 - 45°C  Max. Parallel Configuration  6P  Jump Start Feature  15.6 ± 0.1V  800A  800A  2100A	Weight	8.3kg
Discharge Cut-Off Voltage       8V         Max. Discharge Current       800A         Max. Pulse Discharge Current (3 sec)       2100A         Cold Cranking Amps       1400A         Max. Charge Current       600A         Recommended Charge Current       ≤30A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       -20 - 45°C         Operating Temp - Discharge       -20 - 60°C         BMS High Temp Disconnect       80°C         Max. Parallel Configuration       6P         Jump Start Feature       Yes         IP Rating       56	Max Charge Voltage	14.6 ± 0.1V
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BMS High Temp Disconnect  80°C  Max. Parallel Configuration  6P  Jump Start Feature  Yes  IP Rating  56	Operating Temp - Charge	-20 - 45°C
Max. Parallel Configuration 6P  Jump Start Feature Yes  IP Rating 56	Operating Temp - Discharge	-20 - 60°C
Jump Start Feature Yes IP Rating 56	BMS High Temp Disconnect	80°C
IP Rating 56	Max. Parallel Configuration	6P
	Jump Start Feature	Yes
Certifications IEC62133, UN38.3	IP Rating	56
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