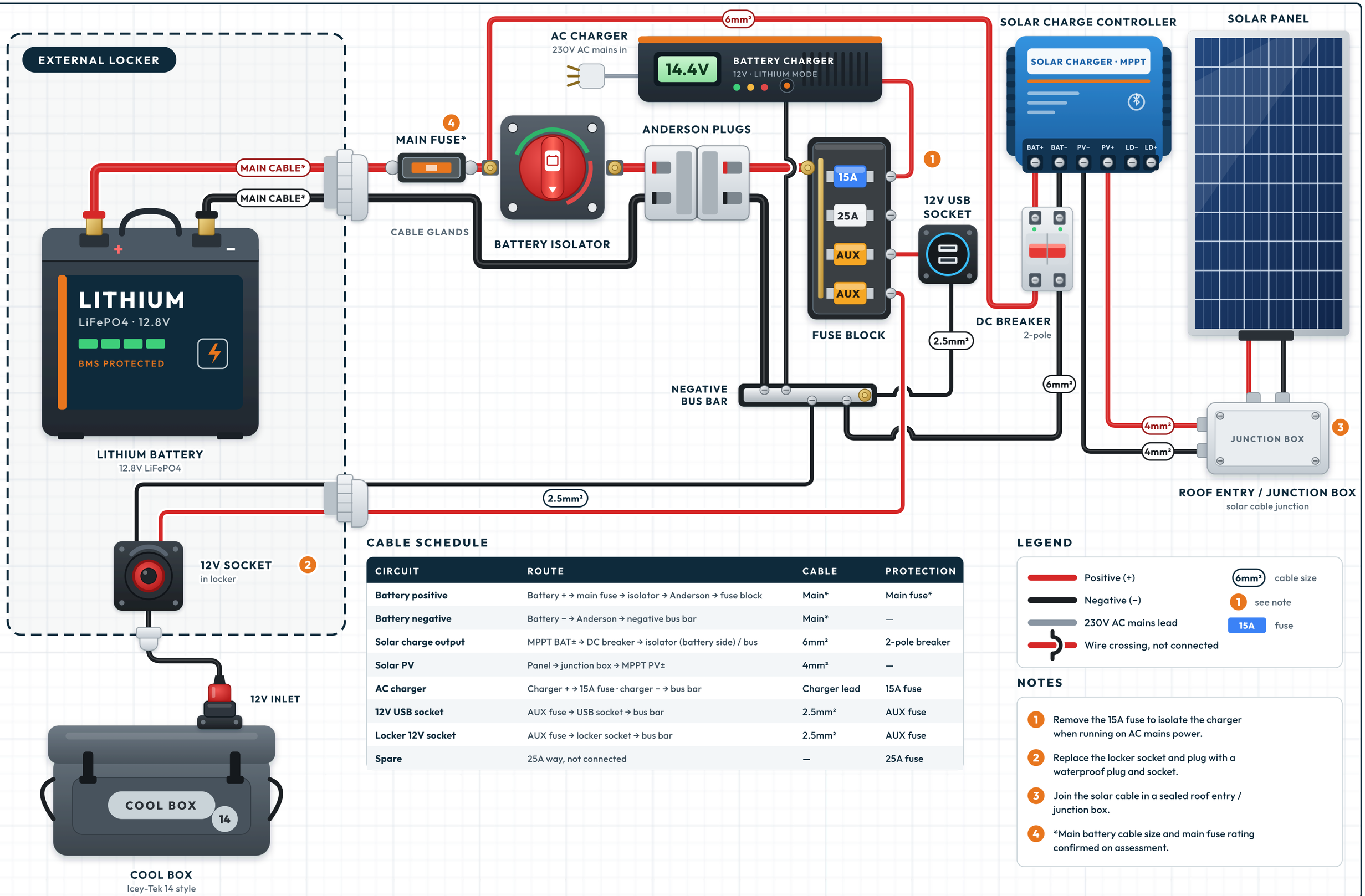
AdverPower
MARINE & MOBILE POWER SYSTEMS

LITHIUM + SOLAR INSTALL KIT

WIRING DIAGRAM · 12V DC

SYSTEM 12V DC	DRAWING AP-LSK-01
REVISION A	DATE FEB 2026



CABLE SCHEDULE

CIRCUIT	ROUTE	CABLE	PROTECTION
Battery positive	Battery + → main fuse → isolator → Anderson → fuse block	Main*	Main fuse*
Battery negative	Battery − → Anderson → negative bus bar	Main*	—
Solar charge output	MPPT BAT± → DC breaker → isolator (battery side) / bus	6mm²	2-pole breaker
Solar PV	Panel → junction box → MPPT PV±	4mm²	—
AC charger	Charger + → 15A fuse · charger − → bus bar	Charger lead	15A fuse
12V USB socket	AUX fuse → USB socket → bus bar	2.5mm²	AUX fuse
Locker 12V socket	AUX fuse → locker socket → bus bar	2.5mm²	AUX fuse
Spare	25A way, not connected	—	25A fuse

LEGEND

- Positive (+)
- Negative (−)
- 230V AC mains lead
- Wire crossing, not connected
- 6mm² cable size
- 1 see note
- 15A fuse

NOTES

1. Remove the 15A fuse to isolate the charger when running on AC mains power.
2. Replace the locker socket and plug with a waterproof plug and socket.
3. Join the solar cable in a sealed roof entry / junction box.
4. *Main battery cable size and main fuse rating confirmed on assessment.

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Cable sizes shown as conductor cross-section (mm²). Not to scale.