



Accessories —Power supply





Power supplies

When the data logger (see Compatibility) isn't supplied with an ELF box, we recommend having external power supply units.

	BSC015	Power supply converter/battery charger for indoor applications.	
		Voltage	230 V AC -> 9 V DC (1.8 A)
		Connection	On data logger power plug
		Protection degree	IP54
		Compatibility	M-Log
	DEA261 DEA261.1	Power supply converter/battery charger for indoor applications to data logger	
		Voltage	10 W—90..264 V AC-> 13,6 V DC (750 mA)
		Frequency range	47...63 Hz
		Connection	DEA261: with 2C connector DEA261.1: free wires to data logger terminal board
		Protection degree	IP54
		Compatibility	DEA261: E-Log DEA261.1: E-Log, Alpha-Log, ALIEM
	DEA251	Power supply converter/battery charger for outdoor applications. N.2 outputs	
		Voltage	85...264 V AC -> 13.8 V DC
		Power	30 W
		Max output current	2 A
		Connection to sensors or data logger	On free terminals board
		Protection degree	IP65
		Protections	Short Circuit, overvoltage, overcurrent
		Operative temperature and humidity	-30...70 °C ; 20...90 %
		Compatibility	E-Log, Alpha-Log, ALIEM
	DYA059	Bracket for DEA251 on poles of 45...65 mm diameter	



Batteries

External batteries are required for E-Log, Alpha-Log operation when not powered from the mains and or to increase the M-Log battery life. Batteries are usually mounted inside ELF enclosures and connected to the data logger using the terminal power supply input.

	MG0558.R	12 V Pb 18 Ah battery	
		Type	Rechargeable Sealed Lead-Acid
		Dimensions and weight	181x76x167 mm; 6 kg
		Operating temperature	<ul style="list-style-type: none"> • Charge -15...40 °C • Discharge -15...50 °C • Storage -15...40 °C
	MG0560.R	12 V Pb 40 Ah battery	
		Type	Rechargeable Sealed Lead-Acid
		Dimensions and weight	151x65x94 mm; 13.5 kg
		Operating temperature	<ul style="list-style-type: none"> • Charge -15...40 °C • Discharge -15...50 °C • Storage -15...40 °C
	MG0552.R	12 V Pb 2.3 Ah battery	
		Type	Rechargeable Sealed Lead-Acid
		Dimensions and weight	178x34x67 mm; 1.05 kg
		Operating temperature	<ul style="list-style-type: none"> • Charge -15...40 °C • Discharge -15...50 °C • Storage -15...40 °C
	MG0564.R	12 V Pb 100 Ah battery	
		Type	Rechargeable Sealed Lead-Acid
		Dimensions and weight	330x171x214 mm; 30 kg
		Operating temperature	<ul style="list-style-type: none"> • Charge -15...40 °C • Discharge -15...50 °C • Storage -15...40 °C

Solar panel

For applications where mains power is not available or where a double power supply is required, the data logger can be powered by a photovoltaic panel. In these cases it is advisable to place the data logger inside an ELF345-345.1 box that includes DYA117 regulator. When a solar panel is present, an external battery must be housed in the ELF345 box model MG0558.R (18 Ah) or MG0560.R (44 Ah), chosen according to the autonomy required and the availability of sunshine.

	DYA1019	80 Wp solar panel	
		Operative voltage (VMP)	21.57 V
		VOC voltage	25.45 V
		Dimensions / Weight	815x535 mm / 4.5 kg
		Tecnology	Monocrystalline
		Frame material	Aluminium
		Cable	L=5 m
		Regulator (DYA117)	<ul style="list-style-type: none"> • Battery Voltage: 12/24 V • Charge/Discharge Current: 10 A • Battery type: Lead/Acid • Float voltage: 13.7 V • Auto Power Off Voltage: 10.7 V • Auto Reconnect Voltage: 12.6 V • Self-consumption: < 10 mA • USB Output: 5 V / 1.2 A Max • Operating temperature: -35...60°C • included inside ELF345-345.1 boxes • Inside Alpha-Log
	DYA064	Tilttable support for solar panel fixing to poles of diam. 45...65 mm Weight: 1.15 kg	