

Required functions of the power supply units of the EN54 series

Functional requirements	Requirements according to the standards	EN54 series
EPS network failure indication	YES	YES
Two independent power supply outputs protected against short circuits	YES	YES
Temperature compensation of the battery charging voltage	YES	YES
Measurement of the resistance of the battery circuit	YES	YES
Low battery indication	YES	YES
Protection against deep battery discharge	YES	YES
Protection against short-circuit at the battery terminals	YES	YES
Blown battery fuse indication	YES	YES
Charging circuit failure Indication	YES	YES
Low output voltage indication	YES	YES
High output voltage indication	YES	YES
Power supply failure indication	YES	YES
Surge protection	YES	YES
Short-circuit protection	YES	YES
Overload protection	YES	YES
Output of collective failure ALARM	YES	YES
EPS technical output	YES	YES
APS technical output	YES	YES
PSU technical output	-	YES
Input of external failure indication EXTi	-	YES
Controlled relay output EXTo	-	YES
Remote battery test	-	YES
230VAC mains supply voltage measurement	-	YES
Optical indication – LED display	-	YES
Tamper – unwanted enclosure opening	-	YES

Model	Output voltage	Fitting battery	Total current	
			for continuous operation – $I_{MAX a}$ $I_o + I_{lad}$	for intermittent operation – $I_{MAX b}$ $I_o + I_{lad}$
EN54-2A17	27,6VDC	2×17Ah	1,0A + 1,0A	2,0 + 0A
EN54-3A17	27,6VDC	2×17Ah	2,0A + 1,0A	3,0 + 0A
EN54-3A28	27,6VDC	2×28Ah	1,5A + 1,5A	3,0 + 0A
EN54-5A17	27,6VDC	2×17Ah	4,0A + 1,0A	5,0 + 0A
EN54-5A28	27,6VDC	2×28Ah	3,5A + 1,5A	5,0 + 0A
EN54-5A40	27,6VDC	2×40Ah	3,0A + 2,0A	5,0 + 0A
EN54-7A17	27,6VDC	2×17Ah	6,0A + 1,0A	7,0 + 0A
EN54-7A28	27,6VDC	2×28Ah	5,5A + 1,5A	7,0 + 0A
EN54-7A40	27,6VDC	2×40Ah	5,0A + 2,0A	7,0 + 0A

The table also concerns power supplies with graphic LCD displays, e.g. EN54-2A17LCD