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This paper presents an isolated Photovoltaic (PV)-battery system for fulfilling the load of a typical house located in Benghazi, Libya. 48 V DC is considered as the bus voltage. The proposed system has been sized using HOMER Pro software and found to consist of 28 PV panels, 330 watts each, and 32 lead-acid battery banks of 12 V, 219 Ah.

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