



With the economic costs of PV modules and advanced inverter technology, PV power generation in on-grid installations for domestic and commercial applications is a practical and cost effective proposition. The key is efficient system controllers and by using the latest technology inverters Dayliff offers unbeatable systems, the PV power output being synchronised with the mains grid power supply to provide an efficient hybrid system that directly utilises all the PV power being generated with the balance of the network requirement being provided from the grid. Capacity is determined by the output of the solar array and by the specification of the inverter, systems up to 100kW being available. Basic systems provide no battery back-up and are dependent upon mains supply availability, though back-up batteries and a separate control inverter can also be specified that will provide power in all conditions. System components include:-

- A PV module array mounted on a roof or at ground level depending on space availability. The individual module size is specified according to customer preference and system size.
- A Huawei inverter/controller that inverts and synchronises the DC PV output into the local power network. All Huawei inverters use state-of-the-art intelligent technology and can also be used to control hybrid systems incorporating battery back-up and generators. A range of Huawei accessories are also available to tailor systems to individual customer requirements.

PV Power Generation is becoming increasingly popular due to its efficiency, the cost savings available and its eco-friendliness and investment cost is now very competitive. This combined with the reliability and advanced technology of Huawei controllers make PV power generation a most practical solution to supplement power in all on-grid power networks.

Systems are individually specified according to site conditions, size and installation requirements. Packages suitable for home or small commercial sites have been specified in the table below though larger systems can be designed on request.

**EQUIPMENT SPECIFICATION**

Model Name	Array Size (STC)	Max Daily Output	Panels	Panel Area	Grid Tie Inverter	Rated Power Frequency/ Rated Grid Voltage
<b>DAYLIFF 3kW Grid Connect</b>	4kWp	20kWh	12No, 335W	23m <sup>2</sup>	SUN3KTL-L1	50Hz/230V
<b>DAYLIFF 5kW Grid Connect</b>	7kWp	34kWh	20No, 335W	39m <sup>2</sup>	SUN5KTL-M1	50Hz/415V
<b>DAYLIFF 10kW Grid Connect</b>	13kWp	67kWh	40No, 335W	78m <sup>2</sup>	SUN10KTL-M1	
<b>DAYLIFF 15kW Grid Connect</b>	20kWp	100kWh	60No, 335W	117m <sup>2</sup>	SUN15KTL-M2	
<b>DAYLIFF 20kW Grid Connect</b>	27kWp	134kWh	80No, 335W	156m <sup>2</sup>	SUN20KTL-M3	
<b>DAYLIFF 50kW Grid Connect</b>	67kWp	335kWh	200No, 335W	389m <sup>2</sup>	SUN50KTL-M0	
<b>DAYLIFF 100kW Grid Connect</b>	134kWp	670kWh	400No, 335W	778m <sup>2</sup>	SUN100KTL-M0	

\* Daily output will fluctuate and be determined by the prevailing radiation levels