Technical Datasheet

Liberty 100 Electricity Credit and PAYG Unit

The Liberty 100 is a single phase smart electricity meter with an integrated communications hub for domestic customers and small commercial premises, in both credit and PAYG modes. It has a modular architecture for both WAN and HAN, so communications modules can be replaced in the field and the investment is protected if technology changes. It uses NB-IoT and Cat M1 for reliable remote communication, and the meter and hub support remote firmware upgrade after installation.

Features:

- Four quadrant measurement with import and export registration
- NB-IoT and Cat M1 communications
- Modular, field replaceable communications module
- Credit and PAYG modes, remotely switchable
- Time of use and complex tariffs, maximum demand
- Keypad for local PAYG token entry
- Integrated contactor
- Remote firmware upgrade with rollback



Managed Services

Meter Data Management

Billing Solutions

PAYG Management

Online Account Management

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SYCOUS®

Part Codes	
SE100EL	Sycous Liberty 100 with Pipit
SE200EL	Sycous Liberty 100 Unit without Pipit
SY910CO	Liberty 100 Commissioning
SY911CO	Liberty 100 Installation
SE100CH	Secure Liberty Pipit Charger
SE100AN	Wall Mounted Antenna, 2G/3G/4G
SE300PP	Secure Pipit In Home Display Unit

Technical Specification	
Electrical	
Connection type	Direct connected, single phase two wire
Voltage	230 VAC nominal
Current range	0.5 to 20 (100) A
Accuracy	Active energy MID class B, reactive energy class 2.0
Mains frequency	50 Hz plus or minus 5 %
Standards	MID class B, EN 50470 1 and 3, IEC 62053 23
Mechanical	
Dimensions (w x h x d)	140 x 175 x 60 mm
Weight	1 kg approx.
Terminals	Tunnel type with 2 screws compliant to BS 7856
Enclosure	Flame retardant polycarbonate
Environmental	
Ingress protection	IP54
Insulation class	Protective class II
Temperature	Minus 25 to plus 55 °C operating, minus 25 to plus 70 °C storage
Humidity	95 % non condensing
Features	
Load survey	13 months, 4 channels
Display	Backlit 10 character alphanumeric starburst display with status icons
Keypad	12 way, 0 to 9, A, B, for PAYG code entry
Security	AES128 encryption, tamper detection



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