

MATERIAL SPECIFICATION

VOCAB NUMBER	ITEM DESCRIPTION
151016A	ELECTRONIC (DIGITAL) ELECTRICITY SMART METER, KWH 3PHASE, 4 WIRE 1A – 15 A C.T.

SPECIFICATION DETAILS

1. STANDARDS:

The Meter shall comply with relevant requirements of the Australian Standards Specification for Electricity Metering AS1284.5, 2000 General Purpose electronic watthour meters or the equivalent PNG Standards as adopted specifically covering credit meters.

2. ELECTRICAL PROPERTIES:

2.1. Voltage:

The voltage shall be 3 x 110V 3P 3W ; 3 x 63.5 (110) V – 3x 240V, 3PH 4W, at 50 Hz frequency and permitted to regulate 220% and +15% of nominal voltage per phase.

2.2. Current:

The secondary rated base current shall be 1 amperes and maximum continuous current shall be 10-15 amperes.

2.3. Accuracy:

It shall be revenue class 0.5S or 0.5% accuracy. The meter accuracy can be determined also by the pulsing rate of consumption as indicated by the LED indicator on the front panel which must flash at a rate of 0.1 impulses per watt hour or Wh.

2.4. Current Transformer:

It shall be suitable for use on 800/5Amp and above. Extended range current transformers Type S with secondary current range of 2.5 to 15 Amperes.

Drawing References:

Manufacturer's Product Code:

STANDARDS COMMITTEE APPROVAL

Approval by: G. Peni

Signature: 

Date: 07 / 02 / 19

DATA REVIEW ENDORSEMENT

NAME	TITLE	SIGNATURE	DATE
Rawali Rawali	Engineer-Standards & Materials		7/2/19

SPECIFICATION FOR THREE PHASE ELECTRONIC ELECTRICITY METER**3. CONNECTION:**

The line and load connection to the Three Phase Meter shall be clearly marked for active and neutral connections. The meter would be typically mounted in a meter box outside or on an electricity supply pole.

4. REMOTE COMMUNICATION:

The meter should be accessed remotely utilising PLC technology and should also have options to access remotely using wireless technology such as GSM, 3G and 4G. The remote communication option will enable remote monitoring, fraud detection, meter tempering and Two-Way communication with the ability to audit meters. The meter should be TCP/IP compatible.

5. METER ENCLOSURE:

The IP rating of the meter should be IP 54 in accordance with IEC 60529 and material should be of polycarbonate, flame retardant, resistance to spread of fire, able to withstand severe heat and resistant to insects.

6. MARKING:

It shall have printed name as "Property of PNG Power Ltd" and engraved or stamped with PPL number supplied by PNG Power Ltd through the official order.

7. DIMENSIONS:

The meter shall have the approximate dimensions of Height: 47mm x Length: 158mm x Width: 132mm.

8. UNITS OF MEASURE:

Units of measure will be Each unit.

9. REJECTION:

PNG Power Ltd reserves all rights to reject whole consignment should 5% or more of anyone consignment be found defective, and is not liable for any cost or loss with the return of rejects to the supplier. Facilitation of invoice credit must commence between the supplier and PNG Power Ltd through the process of PNG Power Ltd Discrepancy Report provisions.

10. SAMPLE:

Samples of the meter shall be made available to PNG Power Ltd for inspection and testing prior to consideration for public tender.

11. TYPE TEST RESULTS:

The supplier shall make available to PNG Power Ltd Type Test Results for the type of meter offered to PNG Power Ltd for consideration and acceptance prior to deciding to accept the meter for purchase and use by PNG Power Ltd.