

TMM-20

Multifunction Power Meter

Operation Manual



TMM-20 Operation Manual

Description

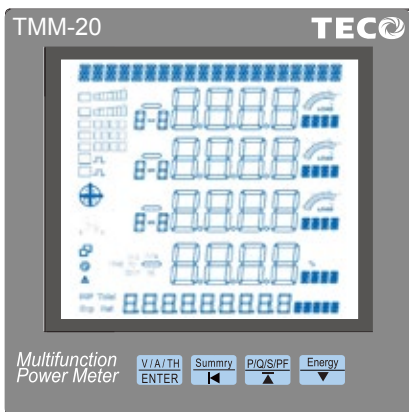
The TMM-20 series Multifunction Power Meter provide high accuracy measurement, display and communication (Modbus RTU) of all electrical and power quality parameters, including harmonic measurement THD (Total Harmonic distortion)

Provides electricity bill ratio (Cost) and carbon dioxide ratio (Co2) set can show cumulative electricity bills and carbon emissions, and suitable for the installation in the power management of remote communication, such as the use of demand.

Application

Control panels and Motor, Generator monitoring Switchgear distribution systems, Energy Management Power quality analysis

Front Panel



Control button:

	Enter Key/ Voltage /Current display page
	Shift Key / Main electric parameters display page
	Up Key / Electric parameters display page
	Down Key / Energy parameters display page

Passwords : 4 digits passwords ; Range : 0000~9999
(Default 1000)

Display : LCD65(W)x58(H)mm ; White backlight ; Blue wording
Visible under direct sunlight

LCD LED : Backlight on time 1~15Min ("0" is always light)

Upper row 20 digits : Display date. time

8888 : 4 Digits x 4 rows, Display value

88888888 : 8 Digits x 1 row, Display Energy parameters

: Rs485 communication status : 2 square status icons
Display Master and Slave status :

Load status indication: IND : load is inductive CAP : load is capacitive
LOAD% : Display load percentage : Display load quadrant

Display load quadrant

R-b, b-C, C-R : When on, value showing Line-Line

R, b, C : When on, value showing in Phase

N : When on, value showing in Neutral

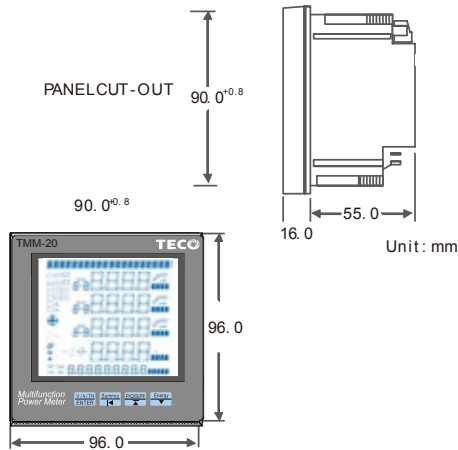
Total : When on, value showing Total value

Avg : When on, value showing Average

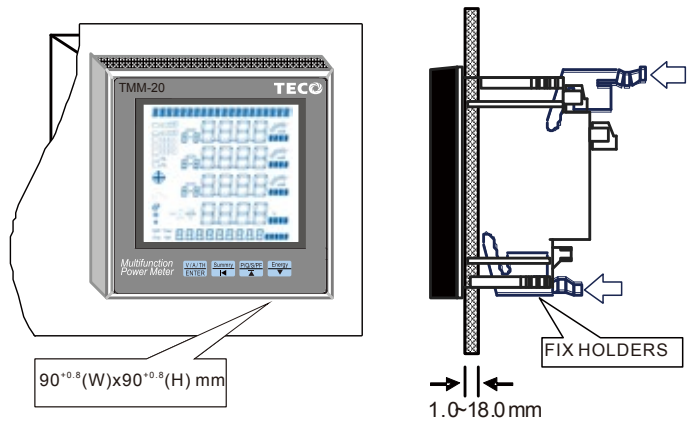
THD : When on, value showing Total harmonics distortion

: LED-16 byte display parameters Unit

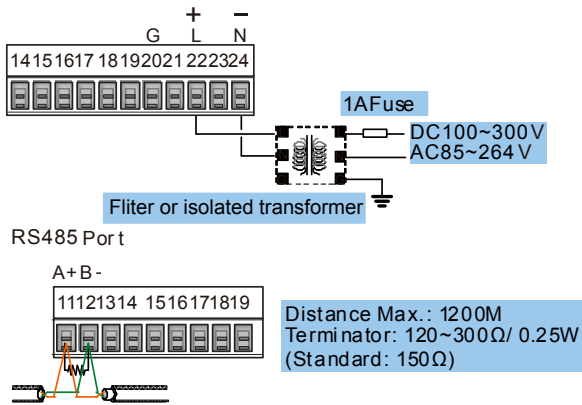
Dimensions



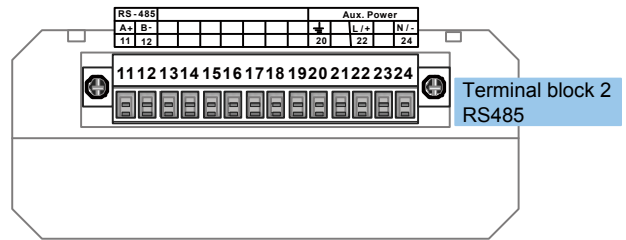
Installation



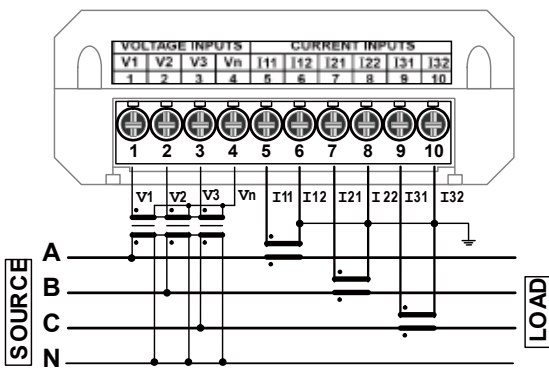
Connection diagram



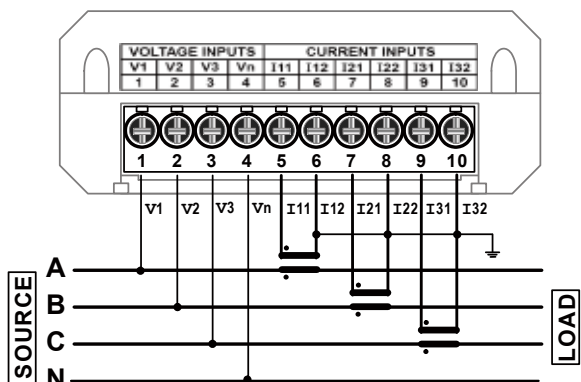
RS485 / (Terminal Block 2)



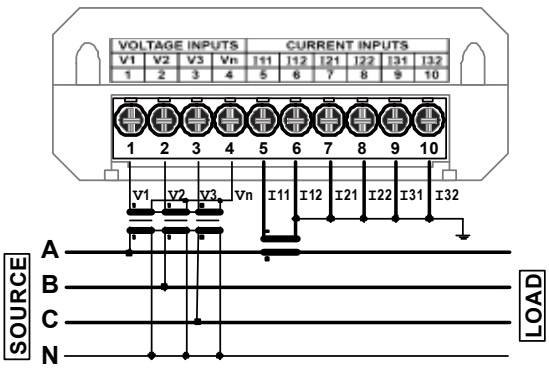
3P4W-3PT/3CT [SET : 3P4Y]



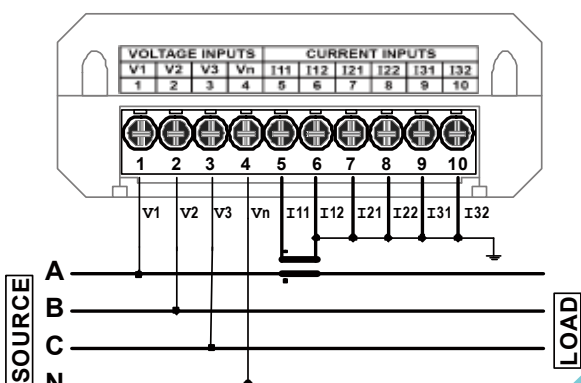
3P4W-Direct Voltage NO PT/3CT [SET : 3P4Y]



3P3W(Balanced load)-3PT/1CT [SET : 3P4Yb]

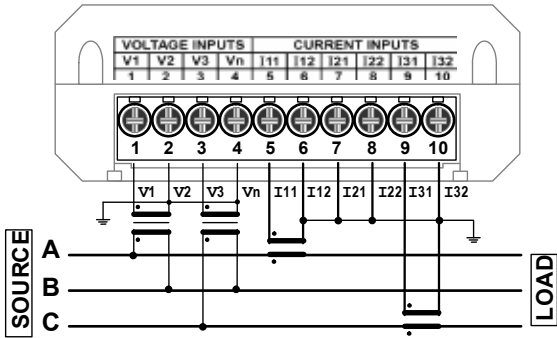


3P4W(Balanced load)-Direct Voltage NO PT/1CT [SET : 3P4Yb]

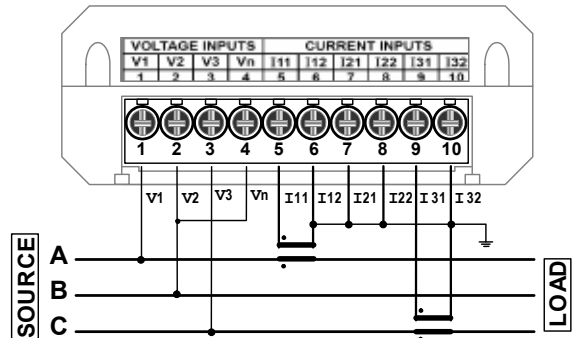


Connection diagram

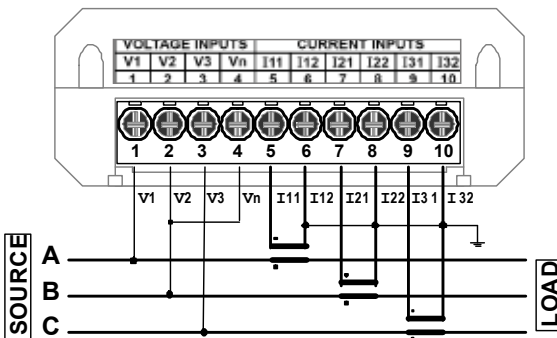
3P3W-2PT/2CT [SET : 3P34]



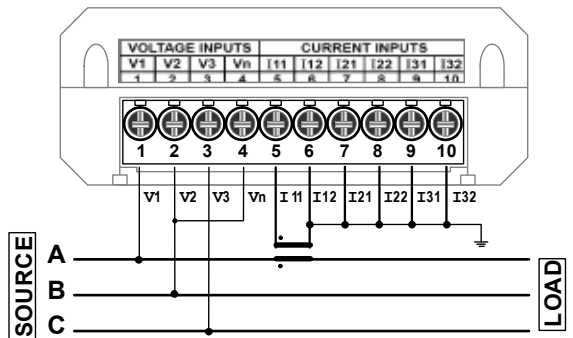
3P3W-Direct Voltage NO PT/2CT [SET : 3P34]



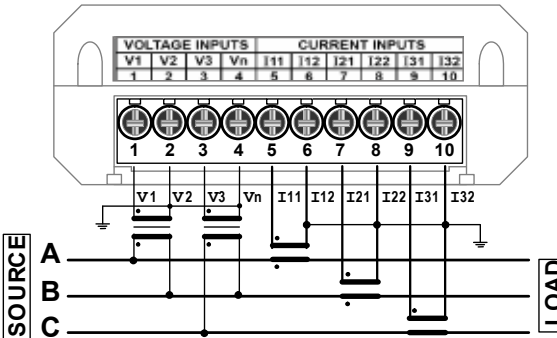
3P3W-NO PT/3CT [SET : 3P343]



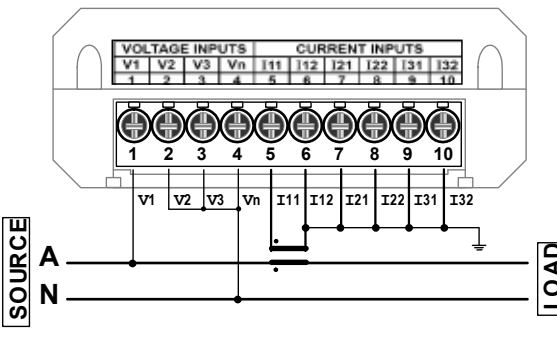
3P3W-Direct Voltage NO PT/1CT [SET : 3P34b]



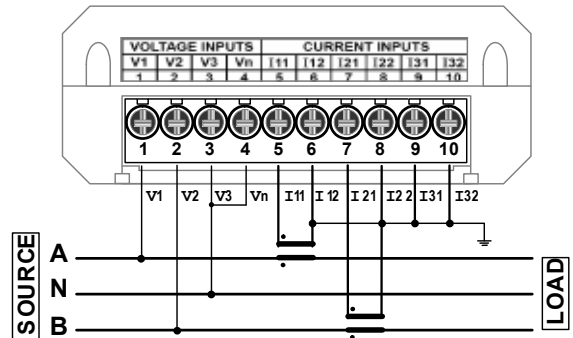
3P3W(Balanced load)-2PT/3CT [SET : 3P343]



1P2W- [SET : 1P24]







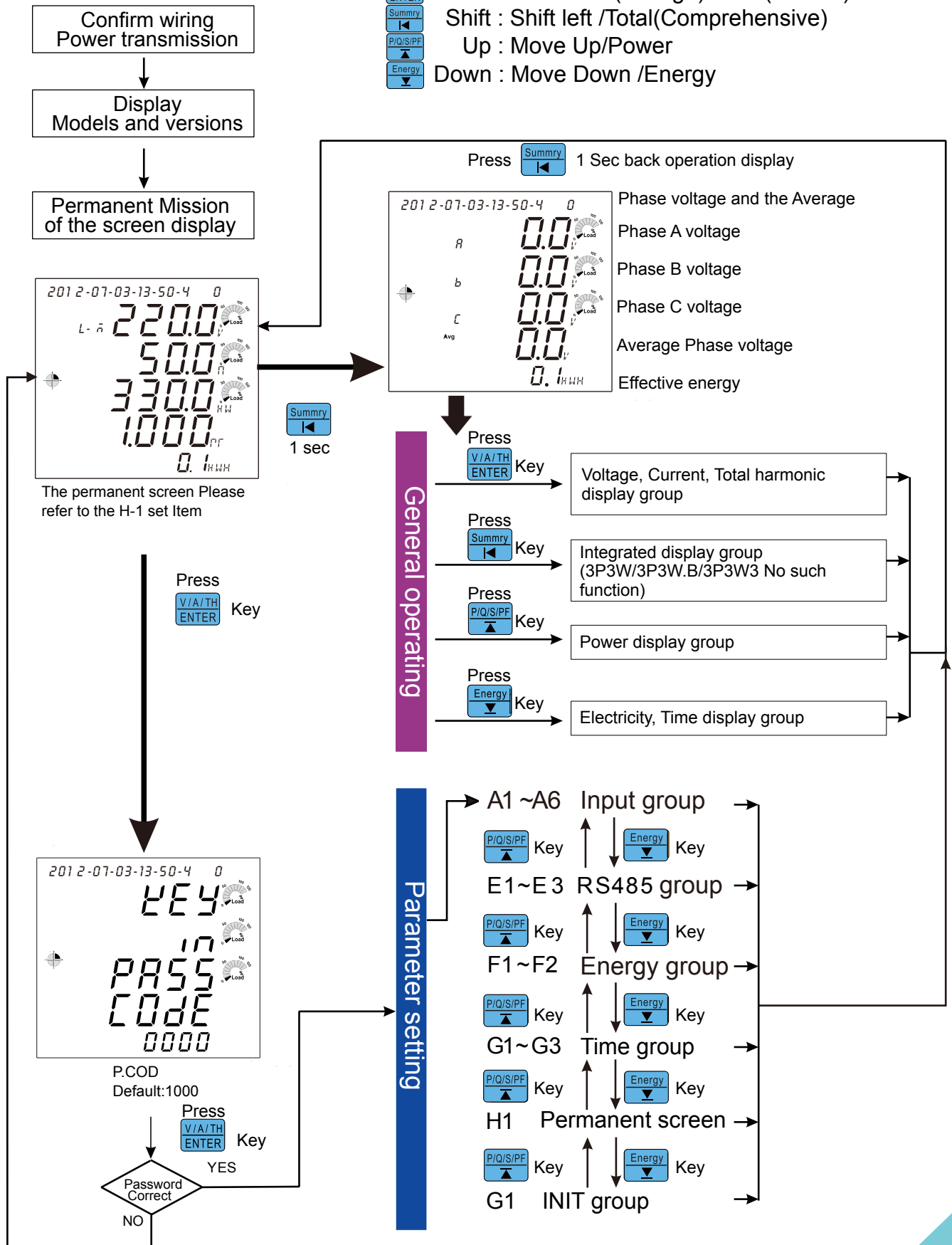
1P3W- [SET : 1P34]



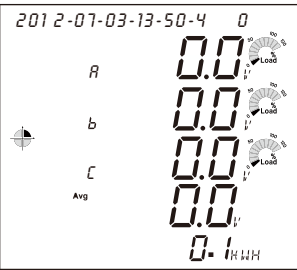
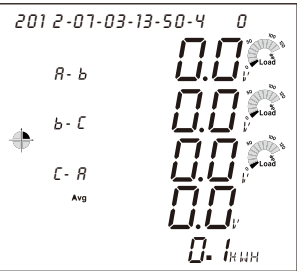
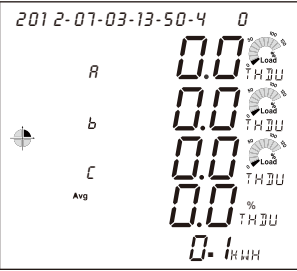
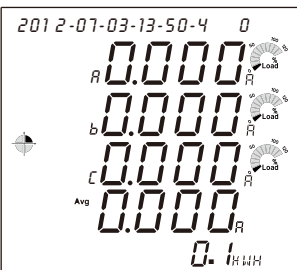
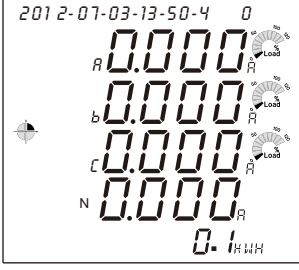
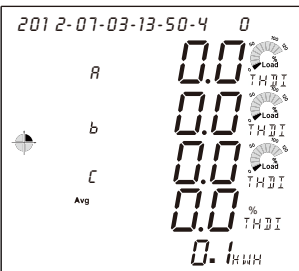
Operational processes

Key definition:


-  ENT : Enter /volt.(Voltage)/AMP.(current)
-  Shift : Shift left /Total(Comprehensive)
-  Up : Move Up/Power
-  Down : Move Down /Energy




Press **V/A/TH** **ENTER** Key (Voltage and Current harmonics screen)

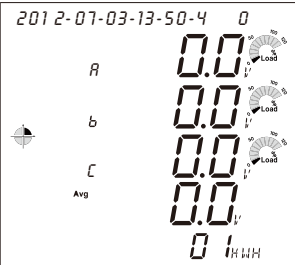
<p>Normal screen Summary 1 seconds, first showed off the voltage value As follows</p>	
	<p>Phase voltage and the Average Phase A voltage</p> <p>Phase B voltage</p> <p>Phase C voltage</p> <p>Average Phase voltage</p> <p>Effective energy</p>
<p>Press V/A/TH ENTER KEY ↓</p>	
	<p>1.1.1-The Value of the Line voltage and the Average Line voltage</p> <p>A-B Line Voltage</p> <p>B-C Line Voltage</p> <p>C-A Line Voltage</p> <p>Average line voltage</p> <p>Effective energy</p>
<p>Press V/A/TH ENTER KEY ↓</p>	
	<p>1.1.2-Voltage total harmonic distortion</p> <p>Phase voltage total harmonic</p> <p>THDU/ Phase A THD</p> <p>THDU/ Phase B THD</p> <p>THDU/ Phase C THD</p> <p>Average line voltage THD</p> <p>Effective energy</p>
<p>Press V/A/TH ENTER KEY ↓</p>	
	<p>1.1.3-Phase current values and the average</p> <p>Phase A current</p> <p>Phase B current</p> <p>Phase C current</p> <p>Average current</p> <p>Effective energy</p>
<p>Press V/A/TH ENTER KEY ↓</p>	
	<p>1.1.4-Phase Current and Neutral Current</p> <p>Phase A current</p> <p>Phase B current</p> <p>Phase C current</p> <p>Neutral Current(N)</p> <p>Effective energy</p>
<p>Press V/A/TH ENTER Key ↓</p>	
	<p>1.1.5-Current harmonic distortion rate</p> <p>THDI/Phase A Current THD</p> <p>THDI/Phase B Current THD</p> <p>THDI/Phase C Current THD</p> <p>Average Current THD</p> <p>Effective energy</p>
<p>Press V/A/TH ENTER Key ↓</p>	
<p>Press Summary ENTER Key1 Sec Back to Measurement screen</p>	

(3P3W/3P3W.B/3P3W3 No such function)


Press  Shift KEY (Comprehensive screen)

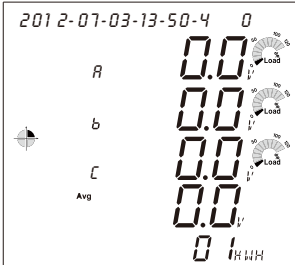
Press  Up KEY (Power Parameters)

Normal screen  1 seconds,
first showed off the voltage value As follows




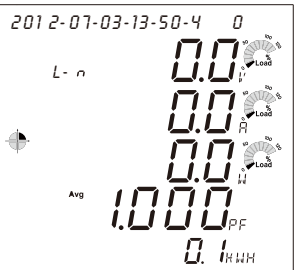
- Phase voltage and the Average Phase A voltage
- Phase B voltage
- Phase C voltage
- Average Phase voltage
- Effective energy

Normal screen  1 seconds,
first showed off the voltage value As follows




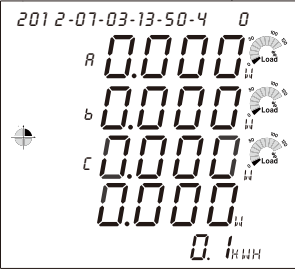
- Phase voltage and the Average Phase A voltage
- Phase B voltage
- Phase C voltage
- Average Phase voltage
- Effective energy

Press  KEY ↓




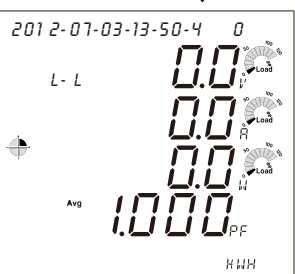
- 1.2.1-3-phase integrated display-1
- Average Phase voltage
- Average current
- Total Effective power
- Average power factor
- Effective energy

Press  KEY ↓




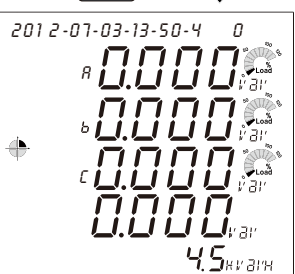
- 1.3.1-Effective power display
- Phase A active power
- Phase B active power
- Phase C active power
- Total Effective power
- Effective energy

Press  KEY ↓




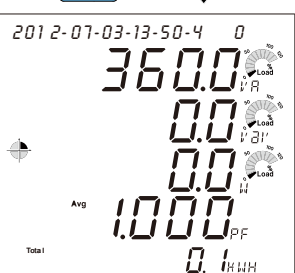
- 1.2.2-3-phase integrated display-2
- Average Line voltage
- Average current
- Total Effective power
- Average power factor
- Effective energy

Press  KEY ↓




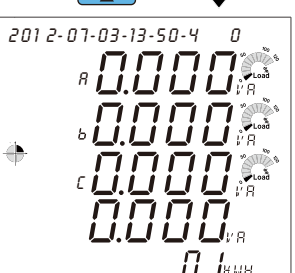
- 1.3.2-Reactive power display
- Phase A reactive power
- Phase B reactive power
- Phase C reactive power
- Total reactive power
- Invalid electricity

Press  KEY ↓




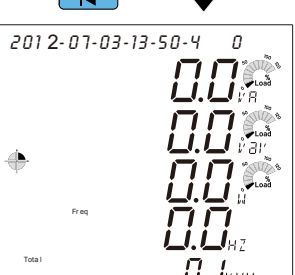
- 1.2.3-3-phase integrated display-3
- Total Apparent Power
- Total Reactive Power
- Total Effective power
- Average power factor
- Effective energy

Press  KEY ↓




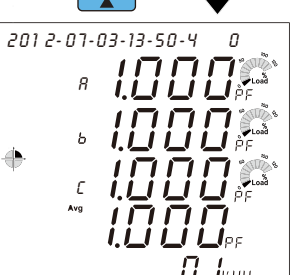
- 1.3.3-Apparent power display
- Phase A apparent power
- Phase B apparent power
- Phase C apparent power
- Total Apparent Power
- Effective energy

Press  KEY ↓







- 1.2.4-3-phase integrated display-4
- Total Apparent Power
- Total Reactive Power
- Total Effective power
- Frequency
- Effective energy

Press  KEY ↓




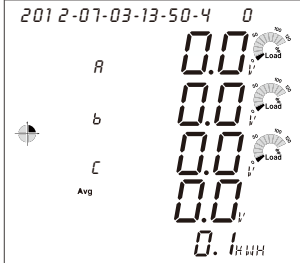
- 1.3.4-Power Factor display
- Phase A power factor
- Phase B power factor
- Phase C power factor
- Average Power factor
- Effective energy

Press  KEY ↓ Press  Key1 Sec Back to Measurement screen

Press  KEY ↓ Press  Key1 Sec Back to Measurement screen

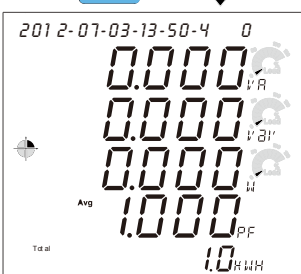
Press  Down KEY (Power parameters)

Normal screen  1 seconds,
first showed off the voltage value As follows



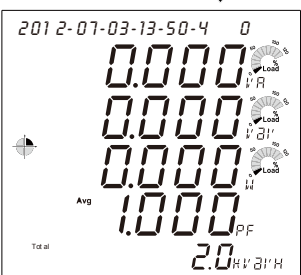
Phase voltage and the Average
Phase A voltage
Phase B voltage
Phase C voltage
Average Phase voltage
Effective energy

Press  KEY ↓



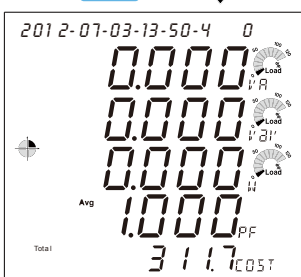
1.4.1-Power display-1
Total apparent power
Total reactive power
Total effective power
Average power factor
Total Effective energy

Press  KEY ↓



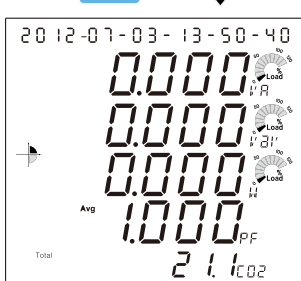
1.4.2-Power display-2
Total apparent power
Total reactive power
Total effective power
Average power factor
Total invalid electricity

Press  KEY ↓





1.4.3-Total electricity bills display
Total apparent power
Total reactive power
Total effective power
Average power factor
Total electricity bill

Press  KEY ↓



1.4.4-Carbon emissions
Total apparent power
Total reactive power
Total effective power
Average power factor
Total carbon dioxide

Press  KEY ↓ Press  Key1 Sec Back to Measurement screen

Engineers set class, non-personnel do not arbitrarily enter the change, in order to avoid abnormal.

INPUT Group

<p>Operation</p> <p>↓ Press Key Enter the setup menus</p> <p>2012-07-03-13-50-40 Password 0000~9999</p> <p>Default : 1000</p> <p>Press Key : SET Press Key : SHIFT Press Key : MOVE/INCREASE Press Key : DOWN/DECREASE Press Key : CONFIRM</p>	<p>A-5 Watt-h / Var Clear Clear Passwords: 0000~9999</p> <p>Default : 2100</p> <p>Zero password please call the company to ask.</p> <p> Key ↑ Key ↓</p>
<p>2012-07-03-13-50-4 0 A-1 Voltage Phase line set Set range is as follows: 1P2W/1P3W/3P3W/ 3P3W.B(Balanced)/3P3W3/ 3P4W/3P4W.B (Balanced) Default:3P4W</p> <p> Key ↑ Key ↓</p>	<p>2012-07-03-13-50-4 0 A-6 P.COD Set range: 0000~9999</p> <p>Default : 1000</p> <p> Key ↑ Key ↓</p>
<p>2012-07-03-13-50-4 0 A-2 Primary-side voltage (PT) Set range:100~50000V</p> <p>Default : 600</p> <p> Key ↑ Key ↓</p>	<p>2012-07-03-13-50-4 0 Rs485 Group E-1 Communication station No. Set range:001~255</p> <p>Default : 1</p> <p> Key ↑ Key ↓</p>
<p>2012-07-03-13-50-4 0 A-3 Secondary-side voltage(PT) Set range:100~600V</p> <p>Default : 600</p> <p> Key ↑ Key ↓</p>	<p>2012-07-03-13-50-4 0 E-2 Communications transmission rate Set range: 1200、2400、4800、9600、 19200、38400</p> <p>Default : 9600</p> <p> Key ↑ Key ↓</p>
<p>2012-07-03-13-50-4 0 A-4 Primary current (CT) Set range:5~10000A</p> <p>Default : 5</p> <p> Key ↑ Key ↓</p>	<p>2012-07-03-13-50-4 0 E-3 Parity Check Set range:n.8.1、n.8.2、 o.8.1、e.8.1</p> <p>Default :n. 8. 2</p> <p> Key ↑ Key ↓</p>

	<p>ENEgy Group F-1 Cost rates Set range: 00.00~99.99 (Rates per kWh)</p> <p>Default : 2.30</p>		<p>H-1 Permanent screen selection Set range:1~4</p> <p>Schedule Description</p> <p>Default : 1</p>
<p>P/Q/S/PF Key ↑ Energy Key ↓</p>	<p>P/Q/S/PF Key ↑ Energy Key ↓</p>		
	<p>F-2 CO2 Carbon ratio Set range: 0.000~9.999(kg/kWh)</p> <p>Default : 0.638</p>		<p>I-1 INIT Restore Default Set range:0000~9999</p> <p>set:7170,restore</p> <p>Default : 0</p>
<p>P/Q/S/PF Key ↑ Energy Key ↓</p>	<p>Press P/Q/S/PF KEY ↓ Back To A-1 Display or</p>		
	<p>TIME Group G-1 Backlight time Set range:0~15(Minute) Set 0 for Always</p> <p>Default : 1</p>	<p>Press Summary Key 1 Sec Back to Measurement screen</p>	<p>Schedule : The Permanent screen instructions</p>
<p>P/Q/S/PF Key ↑ Energy Key ↓</p>	<p>The first</p>	<p>1.2.1-3 phase integrated display-1 Average Phase voltage Average current Total Effective Average power factor Effective energy</p>	
	<p>G-2 Date set Set range: 2000.01.01~2099.12.31</p>		<p>The second</p> <p>1.2.2-3 phase integrated display-2 Average Line voltage Average current Total Effective power Average power factor (PF/IND/Avg) Effective energy</p>
<p>P/Q/S/PF Key ↑ Energy Key ↓</p>	<p>The third</p>	<p>1.2.3-3 phase integrated display-3 Total Apparent Power Total Reactive Power Total Effective Power Average power factor (PF/IND/Avg) Effective energy</p>	
	<p>G-3 Time set Set range: 00.00.00~23.59.59</p>		<p>The fourth</p> <p>1.2.4-3 phase integrated display-4 Total Apparent Power Total Reactive Power Total Effective Power Frequency Effective energy</p>
<p>P/Q/S/PF Key ↑ Energy Key ↓</p>			

RS485 communication parameters address table (Function code: 03h, 06h, 10h)

General class information

Data Name	Register address	Data Format	Data Length	Measurement range	Unit	R/W	Default	Information
Frequency	0000h	XXXX	2	45.00 ~65.00	Hz / 100	R		Frequency (high word)
	0001h	XX.XX						Frequency (low word)
Average phase voltage	0002h	XXXX	2	0~500000.0	V/10	R		Average phase voltage(high word)
	0003h	XXX.X						Average phase voltage(low word)
Ullavg	0004h	XXXX	2	0~500000.0	V/10	R		Average line voltage(high word)
	0005h	XXX.X						Average line voltage(low word)
I avg	0006h	XXXX	2	0~10000.000	A / 1000	R		Average current(high word)
	0007h	X.XXX						Average current(low word)
In	0008h	XXXX	2	0~10000.000	A / 1000	R		Neutral current(high word)
	0009h	X.XXX						Neutral current(low word)
Psum	000Ah	XXXX	2	-999999999 ~999999999	W	R		Total effective power(high word)
	000Bh	XXXX						Total effective power(low word)
Qsum	000Ch	XXXX	2	-999999999 ~999999999	var	R		Total reactive power(high word)
	000Dh	XXXX						Total reactive power(low word)
Ssum	000Eh	XXXX	2	-999999999 ~999999999	VA	R		Total apparent power(high word)
	000Fh	XXXX						Total apparent power(low word)
PF avg	0010h	XXXX	2	-1.000 ~1.000	PF / 1000	R		Average power factor(high word)
	0011h	X.XXX						Average power factor(low word)
Ea	0012h	XXXX	2	0~9999999.9	kWh / 10	R/W		Effective energy(high word) , over 9999999.9 auto Zero
	0013h	XXX.X						Effective energy(low word) , over 9999999.9 auto Zero
Er	0014h	XXXX	2	0~9999999.9	kvarH / 10	R/W		Invalid electricity(high word) , over 9999999.9 auto Zero
	0015h	XXX.X						Invalid electricity(low word) , over 9999999.9 auto Zero
Cost	0016h	XXXX	2	0~9999999.9	\$/10	R		Total electricity bill(high word) , over 9999999.9 auto Zero
	0017h	XXX.X						Total electricity bill(low word) , over 9999999.9 auto Zero
CO ₂	0018h	XXXX	2	0~9999999.9	kg/10	R		The total carbon dioxide(high word) , over 9999999.9 auto Zero
	0019h	XXX.X						The total carbon dioxide(low word) , over 9999999.9 auto Zero
UA	001Ah	XXXX	2	0~500000.0	V/10	R		Phase A voltage(high word)
	001Bh	XXX.X						Phase A voltage(low word)
UB	001Ch	XXXX	2	0~500000.0	V/10	R		Phase B voltage(high word)
	001Dh	XXX.X						Phase B voltage(low word)
UC	001Eh	XXXX	2	0~500000.0	V/10	R		Phase C voltage(high word)
	001Fh	XXX.X						Phase C voltage(low word)
UAB	0020h	XXXX	2	0~500000.0	V/10	R		AB line voltage(high word)
	0021h	XXX.X						AB line voltage(low word)
UBC	0022h	XXXX	2	0~500000.0	V/10	R		BC line voltage(high word)
	0023h	XXX.X						BC line voltage(low word)
UCA	0024h	XXXX	2	0~500000.0	V/10	R		CA line voltage(high word)
	0025h	XXX.X						CA line voltage(low word)
IA	0026h	XXXX	2	0~10000.000	A/1000	R		Phase A current(high word)
	0027h	X.XXX						Phase A current(low word)
IB	0028h	XXXX	2	0~10000.000	A/1000	R		Phase B current(high word)
	0029h	X.XXX						Phase B current(low word)
IC	002Ah	XXXX	2	0~10000.000	A/1000	R		Phase C current(high word)
	002Bh	X.XXX						Phase C current(low word)
PA	002Ch	XXXX	2	-999999999 ~999999999	W	R		Phase A active power(high word)
	002Dh	XXXX						Phase A active power(low word)
PB	002Eh	XXXX	2	-999999999 ~999999999	W	R		Phase B active power(high word)
	002Fh	XXXX						Phase B active power(low word)
PC	0030h	XXXX	2	-999999999 ~999999999	W	R		Phase C active power(high word)
	0031h	XXXX						Phase C active power(low word)
QA	0032h	XXXX	2	-999999999 ~999999999	var	R		Phase A reactive power(high word)
	0033h	XXXX						Phase A reactive power(low word)
QB	0034h	XXXX	2	-999999999 ~999999999	var	R		Phase B reactive power(high word)
	0035h	XXXX						Phase B reactive power(low word)
QC	0036h	XXXX	2	-999999999 ~999999999	var	R		Phase C reactive power(high word)
	0037h	XXXX						Phase C reactive power(low word)
SA	0038h	XXXX	2	-999999999 ~999999999	VA	R		Phase A apparent power(high word)
	0039h	XXXX						Phase A apparent power(low word)
SB	003Ah	XXXX	2	-999999999 ~999999999	VA	R		Phase B apparent power(high word)
	003Bh	XXXX						Phase B apparent power(low word)
SC	003Ch	XXXX	2	-999999999 ~999999999	VA	R		Phase C apparent power(high word)
	003Dh	XXXX						Phase C apparent power(low word)
PFA	003Eh	XXXX	2	-1.000 ~1.000	PF/ 1000	R		Phase A Power Factor(high word)
	003Fh	X.XXX						Phase A Power Factor(low word)
PFB	0040h	XXXX	2	-1.000 ~1.000	PF/ 1000	R		Phase B Power Factor(high word)
	0041h	X.XXX						Phase B Power Factor(low word)
PFC	0042h	XXXX	2	-1.000 ~1.000	PF/ 1000	R		Phase C Power Factor(high word)
	0043h	X.XXX						Phase C Power Factor(low word)
LT	0044h	XXXX	1	82=R, 76=L, 67=C		R		Load characteristics , R: Resistive , L: Inductive , C: Capacitive

General class information

Data Name	Register address	Data Format	Data Length	Measurement range	Unit	R / W	Default	Information
THDUAB	0045h	XXX.X	1	0~100.0	%/10	R		AB line voltage total harmonic
THDUBC	0046h	XXX.X	1	0~100.0	%/10	R		BC line voltage total harmonic
THDUCA	0047h	XXX.X	1	0~100.0	%/10	R		CA line voltage total harmonic
THDUavg	0048h	XXX.X	1	0~100.0	%/10	R		Average voltage total harmonic
THDIA	0049h	XXX.X	1	0~100.0	%/10	R		Phase A current total harmonic
THDIB	004Ah	XXX.X	1	0~100.0	%/10	R		Phase B current total harmonic
THDIC	004Bh	XXX.X	1	0~100.0	%/10	R		Phase C current total harmonic
THDIavg	004Ch	XXX.X	1	0~100.0	%/10	R		Average total harmonic current

Input group setting class

Data Name	Register address	Data Format	Data Length	Measurement range	Unit	R / W	Default	Information
Voltage wiring Wire-U	004Dh	X	1	0~6		R/W	5	0:1P2W 1:1P3W 2:3P3W 3:3P3W.B 4:3P3W.3 5:3P4W 6:3P4W.B
PT-Pri	004Eh	XXXX	2	100~500000	V	R/W	600	PT Primary side voltage setting (high word)
	004Fh	XXXX						PT Primary side voltage setting (low word)
PT-Sec	0050h	XXXX	1	100~600	V	R/W	600	PT Secondary voltage settings
CT-Pri	0051h	XXXX	1	5~10000	A	R/W	5	CT Primary current setting
P. code	0052h	XXXX	1	0000~9999		R/W	1000	Clearance password change

RS485 communication group settings class

Data Name	Register address	Data Format	Data Length	Measurement range	Unit	R / W	Default	Information
Addr	0053h	XXX	1	1~255		R/W	1	The Communication Station No. setting
Baud	0054h	X	1	0~5		R/W	3	0:1200, 1:2400, 2:4800, 3:9600, 4:19200, 5:38400
Parity	0055h	X	1	0~3		R/W	1	0:N81, 1:N82, 2:O81, 3:E81

Cost group setting class

Data Name	Register address	Data Format	Data Length	Measurement range	Unit	R / W	Default	Information
Cost	0056h	XX.XX	1	00.00~99.99		R/W	2.30	kWh the cost ratio setting
CO2	0057h	X.XXX	1	0.000~9.999		R/W	0.638	kWh of carbon dioxide ratio setting

Time group settings class

Data Name	Register address	Data Format	Data Length	Measurement range	Unit	R / W	Default	Information
Back-Light	0058h	XX	1	0~15		R/W	1	0/1~15Minute, 0 minutes representatives never light up
Year	0059h	XXXX	1	0~99 = 2000~2099		R/W		
Month	005Ah	XX	1	1~12		R/W		
Day	005Bh	XX	1	1~31		R/W		
Time	005Ch	XX	1	0~23		R/W		
Minute	005Dh	XX	1	0~59		R/W		
Second	005Eh	XX	1	0~59		R/W		

Permanent screen group settings class

Data Name	Register address	Data Format	Length	Measurement range	Unit	R / W	Default	Information
Def.Page	005Fh	XXXX	1	1~4		R/W	1	1: 1.2.1 : Average phase voltage(T/L-n/V) / Average current (A)/ Total effective power(kW) Average power factor(PF/IND/Avg) / Total effective energy(kWh) 2: 1.2.2 : Average line voltage(T/L-L/V) / Average current (A)/ Total effective power(kW) Average power factor(PF/IND/Avg) / Total effective energy(kWh) 3: 1.2.3 : Total apparent power(T/kVA) / Total reactive power(kvar)/ Total effective power (kW)/ Average power factor(PF/IND/Avg) / Total effective energy(kWh) 4: 1.2.4 : Total apparent power(T/kVA) / Total reactive power(kvar)/ Total effective power (kW)/ Frequency(Hz) / Total effective energy(kWh)

Data Name	Register address	Data Format	Length	Measurement range	Unit	R / W	Default	Information
INIT	0060h	XXXX	2	0000~9999		R/W	0	Set:7170 . Restore Default

Client Custom class

Data Name	Register address	Data Format	Data Length	Measurement/Set Range	Unit	R/W	Default	Information
Client Custom 1	5000h	XX	1	0~76(0x4c)		R/W	0x0000h	This regional data to set the following 20 addresses (5014h~5027h) content of the information, That is redefining 5014h~5027h address information significance Address correspondence to: 5000h set 5014h corresponding address data content. Address correspondence to: 5001h set 5015h corresponding address data content. Address correspondence to: 5013h set 5027h address data corresponding to content. Example: 1: 5000h address data = 0000h, 5001h address data = 0001h. Then the corresponding address 5014h ,5015h addresses are mapped to the content of 0000h, 0001h, according to the table, 5014h ,5015h address data for the frequency content high byte and low byte (Setting range 0 ~ 0x4c, read the corresponding region RS485 Data Sheet)
Client Custom 2	5001h	XX	1	0~76(0x4c)		R/W	0x0001h	
Client Custom 3	5002h	XX	1	0~76(0x4c)		R/W	0x0002h	
Client Custom 4	5003h	XX	1	0~76(0x4c)		R/W	0x0003h	
Client Custom 5	5004h	XX	1	0~76(0x4c)		R/W	0x0004h	
Client Custom 6	5005h	XX	1	0~76(0x4c)		R/W	0x0005h	
Client Custom 7	5006h	XX	1	0~76(0x4c)		R/W	0x0006h	
Client Custom 8	5007h	XX	1	0~76(0x4c)		R/W	0x0007h	
Client Custom 9	5008h	XX	1	0~76(0x4c)		R/W	0x0008h	
Client Custom 10	5009h	XX	1	0~76(0x4c)		R/W	0x0009h	
Client Custom 11	500Ah	XX	1	0~76(0x4c)		R/W	0x000Ah	
Client Custom 12	500Bh	XX	1	0~76(0x4c)		R/W	0x000Bh	
Client Custom 13	500Ch	XX	1	0~76(0x4c)		R/W	0x000Ch	
Client Custom 14	500Dh	XX	1	0~76(0x4c)		R/W	0x000Dh	
Client Custom 15	500Eh	XX	1	0~76(0x4c)		R/W	0x000Eh	
Client Custom 16	500Fh	XX	1	0~76(0x4c)		R/W	0x000Fh	
Client Custom 17	5010h	XX	1	0~76(0x4c)		R/W	0x0010h	
Client Custom 18	5011h	XX	1	0~76(0x4c)		R/W	0x0011h	
Client Custom 19	5012h	XX	1	0~76(0x4c)		R/W	0x0012h	
Client Custom 20	5013h	XX	1	0~76(0x4c)		R/W	0x0013h	
Custom the output 1	5014h		1			R		Meaning of the data subject 5000h~5013h address control, data format and the unit and the actual output data format to match the format, see the table RS485
Custom the output 2	5015h		1			R		
Custom the output 3	5016h		1			R		
Custom the output 4	5017h		1			R		
Custom the output 5	5018h		1			R		
Custom the output 6	5019h		1			R		
Custom the output 7	501Ah		1			R		
Custom the output 8	501Bh		1			R		
Custom the output 9	501Ch		1			R		
Custom the output 10	501Dh		1			R		
Custom the output 11	501Eh		1			R		
Custom the output 12	501Fh		1			R		
Custom the output 13	5020h		1			R		
Custom the output 14	5021h		1			R		
Custom the output 15	5022h		1			R		
Custom the output 16	5023h		1			R		
Custom the output 17	5024h		1			R		
Custom the output 18	5025h		1			R		
Custom the output 19	5026h		1			R		
Custom the output 20	5027h		1			R		



TECO Electric & Machinery Co., Ltd.

10F, No. 3-1, Yuan Cyu St., Nan-Kang District, Taipei 115, Taiwan

TEL : 886-2-6615-9111Ext. 2510

FAX : 886-2-6615-2033

<http://globalsa.teco.com.tw>

Ratings and specifications covered in this brochure may be subject to change without notice.