



- True RMS @ 1024 Samples/Cycle
- IEC 62053-22 Class 0.2S Compliant
- IEC 61000-4-30 Class A Certified
- IEC 61000-4-15 Flickermeter
- PQ Disturbance Detection
- Disturbance Waveform Recording
- Comprehensive SDR and Energy Logs
- 1xEthernet and 2xRS-485
- Modbus RTU/TCP, HTTP, SNTP, SMTP
- Extended Temperature Range
- Extended Warranty

- 5.7" Color LCD Display @ 640x480
- 2 GB Log Memory
- EN50160 Compliance Reporting
- IEC 61000-4-7 Harmonics/Interharmonics
- WF Recording in COMTRADE Format
- ¹/₂ cycle RMS Recorder
- 40 Programmable Setpoints
- IEC 61850 Support (Optional)
- DIN 144 (138x138 Cutout)
- Industrial Grade Components
- Standard Tropicalization

Designed For Reliability





The iMeter 7 is CET's Advanced PQ Analyzer designed for the compliance monitoring market as it offers unsurpassed functionality by combining Class 0.2S Accuracy and advanced PQ Features in a compact DIN 144 form factor with a stunning, High-Resolution, Color TFT LCD display. The iMeter 7 satisfies such standards as IEC 62053-22 Class 0.2S, IEC 61000-4-30 Class A Edition 2, IEC 61000-4-15, IEC 61000-4-7, EN 50160 and optional IEC 61850 for Smart Grid applications. Further, the iMeter 7 offers 2GB onboard memory, extensive I/O with 8xDIs, 4xROs, 2xSS Pulse Outputs, multiple Time Sync. methods, one 100BaseT Ethernet and two RS-485 ports. These features likely make the iMeter 7 one of the most advanced PQ Analyzers for an intelligent Power Quality Monitoring System.

Typical Applications

- PQ monitoring at HV, MV and LV Utility Substations
- Data Centers, Semiconductor Fabs, Heavy Industries
- 7x24 Automated Manufacturing Facilities
- Dips, Swells, Interruptions, Transients, Flickers & Harmonics Monitoring
- Mains and critical feeder monitoring
- Optional IEC 61850 support for Smart Grid

Basic Features

- IEC 62053-22 Class 0.2S kWh metering with Multi-Tariff TOU
- True RMS @ 1024 samples/cycle sampling
- 2GB on-board log memory
- Industrial-grade, 5.7", High-Resolution Color TFT LCD @ 640x480
- 8xDigital Inputs, 4xRelay Outputs & 2xSS Pulse Outputs
- Time Sync. via SNTP, GPS 1PPS or IRIG-B inputs
- 16 High-Speed and 24 Standard Setpoints
- Standard 100BaseT Ethernet and 2xRS-485 ports

Power Quality Features

- IEC 61000-4-30 Edition 2 Class A Certified
- IEC 61000-4-15, IEC 61000-4-7 and EN 50160 Reporting
- Dips, Swells, Interruptions, Transients, Rapid Voltage Changes, Inrush Current, Mains Signalling Voltage and Flicker monitoring
- Real-time Waveform Capture (WFC), Waveform Recording (WFR) & Disturbance WF Recording (DWR)
- Disturbance Direction Indicator
- Harmonic and Interharmonic Analysis up to 63rd
- Waveform recording in COMTRADE file format

Front Panel Display and Web Interface

- True RMS Real-time, Harmonics, Power and Energy Measurements
- Demands and Multi-Tariff TOU
- Max. & Min. Logs
- Sequence & Unbalance
- Real-time WFC of 3-phase U & I @ 128 samples/cycle x 4 cycles
- Event Waveforms and ITIC/SEMI F47 Curves
- Harmonics & Interhamonics Histogram and Phasor Diagrams
- Device and SOE Logs, PQ Counters and I/O Status
- Device Configuration and Diagnostics

iMeter 7 Advanced Power Quality Analyzer

Power Quality Metering

PQ Parameters as per IEC 61000-4-30 Edition 2 Class A Certified

- Power Frequency
- Magnitude of the Supply Voltage
- Flicker
- Supply Voltage Dips/Swells
- Voltage Interruptions
- Transient Voltages
- Supply Voltage Unbalance
- Voltage Harmonics and Interharmonics
- Mains Signalling Voltage on the Supply Voltage
- Rapid Voltage Changes

Measurement of Over and Under Deviation Parameters

Harmonic and Interharmonic Measurements

- K-Factor for Current, Crest Factor for Current and Voltage
- U and I THD, TOHD, TEHD, TIHD, TEIHD and TOIHD
- U and I Individual Harmonics (%HD, RMS and Angle) from 2nd to 63^{rd #}
- U and I Individual Interharmonics (%IHD and RMS) from 0 to 63^{rd #}
- Total Harmonic P, Q, S and PF
- Harmonic P, Q, S, and PF from 2nd to 63rd
- Fundamental U, I, P, Q, S, Phase Angle, and Displacement PF
- Fundamental kWh, kvarh Import/Export/Net/Total
- Total Harmonic kWh, kvarh Import/Export/Net/Total
- Total Harmonic kWh, kvarh Import/Export from 2nd to 63rd
 "%HD and %IHD can be configured as % of Fundamental, % of U/I nominal or % of RMS

Sequence and Unbalance

- Zero, Positive and Negative Sequence Components
- U and I Unbalance based on Zero and Negative Sequence Components

Dips, Swells, Interruptions and Transients Recording

- Dips, Swells, Interruptions detection @ 10ms (½ cycle at 50 Hz)
- Transients capture as short as 40us at 512 samples @ 50 Hz for sub-cycle disturbances such as capacitor switching and resonance phenomena
- Trigger for RO, WFR, DWR, RMS Recording, SOE and Alarm Email
- Display of ITIC or SEMI F47 plot as well as the Event WFR or DWR on the Front Panel and Web Interface

Rapid Voltage Changes (RVC)

Detection of a quick transition in RMS Voltage between two steady-states

Inrush Current Monitoring

- Monitoring of the ½ cycle RMS Current and capturing of the Current waveforms associated with events such as motor starting and transformer being energized
- Disturbance Direction Indicator
 Determine if a Dip Event is located upstream or downstream
- Pinpoint if the cause of the event is external or internal

PQ Event Counters

 Dips, Swells, Interruptions, Transients, Rapid Voltage Change, Inrush Current, Mains Signalling Voltages and Total PQ Event Counters

Real-Time Waveform Capture (WFC) and Waveform Recorder (WFR)

- Real-time WFC @ 128 samples/cycle x 4 cycles via Front Panel and Web Interface
- WFR with max. 128 entries
- Simultaneous capture of 3-Phase Voltage and Current Inputs No. of Cycles x Samples/Cycles with programmable pre-fault cycles: 10x1024, 20x512, 40x256, 80x128, 160x64, 320x32, 640x16
- COMTRADE file format, downloadable from the on-board Web Server or FTP Server

Disturbance Waveform Recording (DWR)

- 128 entries
- Simultaneous recording of all Voltage (U1-U4) and Current (I1-I4) Inputs
 Initial Fault: 35 cycles @ 256 samples/cycle
 - Extended Fault: Up to 150 cycles @ 16 samples/cycle
 - Steady State: Up to 360 seconds of 1-cycle absolute peak values
 - Post Fault: 15 cycles @ 256 samples/cycle

RMS Recorder (RMSR)

- 128 entries
- 8 parameters max., selectable U, I, P, Q, S, PF, Frequency, Freq. Deviation

Manufactured To Last

- Recording Interval from 0.5 to 60 cycles
- Recording Depth @ 7200 samples per parameter
- Configurable pre-fault samples from 100 to 500
- 72 seconds of ½ cycle RMS recording @ 50Hz or 60 seconds @ 60Hz

Designed For Reliability



Metering

Basic Measurements (1-second update)

- 3-phase U, I, P, Q, S, PF, Phase Angle as well as U4, I4 and Frequency
- kWh, kvarh Import/Export/Net/Total and kVAh Total

High-Speed Measurements for Event Detection

- 3-phase U, I, P, Q, S and PF as well as U4 and I4 @ ½ cycle
- Frequency @ 5 cycles

Demands

- Present and Predicted Demand for 3-phase U, I, P, Q, S, PF as well as U4, I4 and Frequency
- Present Demand of 4-phase U & I THD/TOHD/TEHD, 4-phase Current K-Factor, U & I Unbalance, Over Deviation & Under Deviation of Voltage and Frequency, 4-phase Fundamental Current
- Maximum Demand for This Month & Last Month (or Since the Last Reset & Before the Last Reset)
- Demand Synchronization with DI

Multi-Tariff TOU Capability

- Two independent sets of TOU Schedules
 - Up to 12 Seasons
 - 90 Holidays or Alternate Days and 3 Weekdays
 - 20 Daily Profiles, each with 12 Periods in 15-minute intervals
 - 8 Tariffs, each providing the following information:
 - kWh/kvarh Import/Export and kVAh
 - o kW/kvar Import/Export Maximum Demands timestamped
 - Register rollover at 100,000,000,000.000 kXh
- 12 Historical Logs for Energy and Max. Demand

Data and Event Recorders

Non-Volatile Log Memory

2 GB on-board log memory

Interval Energy Recorder (IER) and Accumulative Energy Recorder (AER)

- Both IER Log and AER Log support the recording of Total RMS kWh, kvarh Import/Export/Total/Net and kVAh, Total Fundamental/Harmonic kWh, kvarh Import/Export.
- Recording interval from 1 to 65535 minutes
- Max. Recording Depth @ 65535 records for IER and AER individually
- Support FIFO and Stop-When-Full Mode

Statistical Data Recorder (SDR)

- 8 SDR logs of 64 parameters each
- Recording of Max., Min., Avg. and 95th percentile for Real-time Measurements including U, I, Freq., P, Q, S, PF, Harmonics, Deviations and Unbalances
- Recording Interval from 0 to 60 minutes
- 90 days @ 3-minute, 300 days @ 10-minute, 450 days @ 15-minute
- Downloadable via DiagSys software
- Support FIFO or Stop-When-Full Mode

Max./Min. Recorder (MMR)

- 4 Max./Min. Recorders of 20 parameters each
- RMS/Fundamental/Harmonic/Interharmonic Measurements, Demands, Deviations, Unbalances and Flicker
- Two transfer modes:
 - Manual: Max./Min. Since the Last Reset & Before the Last Reset
 - Auto: Max./Min. of This Month & Last Month

SOE Log

- 1024 FIFO events time-stamped to ± 1ms resolution
- Setpoint events, I/O operations, Dips/Swells/Interruptions, Transients, Rapid Voltage Changes, Inrush Current, Mains Signalling Voltage, etc.
- Record the characteristics data of Setpoint event as well as Waveform, ITIC and SEMI F47 Curve for PQ events

Device Log

- 1024 FIFO entries time-stamped to ± 1ms resolution
- Power On/Off, Setup changes, Time Sync., Device Operations, and Selfdiagnostics

Designed For Reliability

iMeter 7 Advanced Power Quality Analyzer

Setpoints

- **PQ Setpoints**
- Transients, Dips, Swells, Interruptions
- Rapid Voltage Change
- Inrush Current
- Trigger RO, SOE Log, WFR, DWR, RMSR and Alarm Email

Control Setpoints

- 16 High-speed (½ cycle) Setpoint and 24 Standard (1s) Setpoint
- Extensive monitoring sources including U, I, P, Q, S, Demands, Harmonics, Unbalances, Deviations, Flickers, Phase Reversal, etc.
- Configurable thresholds and time delays
- Trigger RO, SOE Log, WFR, DWR, RMSR and Alarm Email

Inputs and Outputs

Digital Inputs

- Standard 8 channels, volt free dry contact, 24VDC Internal Excitation
- 1000Hz sampling for status monitoring with programmable debounce
- Pulse counting for collecting WAGES (Water, Air, Gas, Electricity, Steam) information
- Demand Synchronization
- Tariff Switching based on DI Status

Digital Outputs

- Standard 6 channels for control, alarming and pulsing applications
- RO1-RO4: Form A Mechanical Relay
- DO1+/DO1-, DO2+/DO2-: Optically isolated Solid State Relay

Communications

RS-485 (P1, P2)

- Dual optically isolated RS-485 ports with baud rate from 1.2kbps to 38.4kbps
- Protocol supported: Modbus RTU, Ethernet Gateway
- Time Sync. via P1 with GPS 1PPS or IRIG-B outputs

Ethernet Port (P3)

- 1x10/100BaseT with RJ45 connector
- Built-in Web Server for easy data viewing, firmware upgrade and setup configuration
- Protocol supported: Modbus TCP, HTTP, SNTP, SMTP, FTP and optional IEC 61850
- Multiple simultaneous client connections:
 - 8xModbus TCP
 - 8xIEC 61850 (optional)

Time Synchronization

- Battery-backed Real-time clock @ 6ppm (≤ 0.5s/day)
- Time Synchronization via Modbus RTU/TCP, SNTP, GPS 1PPS and IRIG-B

System Integration

Pecstar iEMS

- The iMeter 7 is supported by CET's PecStar iEMS.
- In addition, the iMeter 7 can be easily integrated into other 3rd party systems because of its support of multiple communications ports as well as different industry standard protocols such as Modbus and IEC 61850

Diagsys

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- Display of Real-time Measurements, PQ Events, Waveforms and Statistical Trend Charts
- Export of IER, AER and SDR Logs as well as EN50160 Reports
- Generation and export of self-defined PQ Analysis Reports

supports the industry standard COMTRADE file format.

3rd Party System Integration

- Easy integration into Substation Automation or Utility SCADA systems via Modbus RTU, Modbus TCP or IEC 61850
- The on-board Web Server allows complete access to its data and supports the configuration for most Setup parameters via a web browser Without the use of proprietary software.

The on-board, password protected FTP Server allows waveform records in

COMTRADE format to be downloaded without any special software. The

downloaded waveform files can be subsequently viewed using software that



iMeter 7 **Advanced Power Quality Analyzer**

R

3P4W, 3PTs, 4CTs

121 122

31

141 142

Accuracy

Parameters	Accuracy	Resolution
Voltage	±0.1%	0.01V
Current	±0.1%	0.001A
P, Q, S	±0.2%	0.001W/var/VA
PF	±0.5%	0.001
Frequency	±0.003Hz	0.001Hz
kWh, kVAh	IEC 62053-22 Class 0.2S	0.1kXh
kvarh	IEC 62053-24 Class 0.5S	0.1kvarh
kvarn	IEC 62053-23 Class 2	0.1kvarn
Harmonics	IEC 61000-4-7 Class A	0.001
K-Factor	IEC 61000-4-7 Class A	0.01
Phase Angle	±0.2°	0.1°
Voltage Unbalance	±0.1 %	0.01%
Current Unbalance	±0.5%	0.01%
Pst, Plt	±5%	0.001
	Voltage: ±0.2%Un	0.01%
Dip/Swell/Interruption	Duration: ±1 cycle	0.01%

Technical Specifications

echnical Specifications													
Voltage Inp	outs (V1, V2, V3, VN, V4)												
Standard (Un)	400VLN/690VLL+ 20%												
Range	10V to 120% Un for 400VLN nominal												
Overload	1.2xUn continuous, 4xUn for 1s												
Burden	< 0.1VA/per phase												
PT Ratio													
Primary	1-1,000,000V												
Secondary	1-1,500V												
V4 Primary	1-1,000,000V												
V4 Secondary	1-1,500V												
Frequency	40Hz-60Hz @ 50Hz, 48Hz-72Hz @ 60Hz												
Current Inputs (·I11	, 112, •121, 122, •131, 132, •141, 142)												
Standard (In)	5A (Standard), 1A (Optional)												
Range	1% to 400% In												
Starting Current	0.1% In												
Overload	4xIn continuous, 10xIn for 1s												
Burden	< 0.5VA/per phase @ 5A												
	< 0.1VA/per phase @ 1A												
CT Ratio													
Primary	1-30,000A												
Secondary	1-50A												
14 Primary	1-30,000A												
14 Secondary	1-50A												
	er Supply (L+, N-)												
Standard	95-250VAC/VDC ± 10%, 47-440Hz												
Optional	20-60VDC												
Burden	< 22VA / 9W												
Overvoltage Category	CAT III 300V												
	1, DI2, DI3, DI4, DI5, DI6, DI7, DI8)												
Standard	Dry contact, 24VDC internally wetted												
Sampling	1000Hz												
Hysteresis	1ms minimum												
	, RO21/RO22, RO31/RO32, RO41/RO42)												
Туре	Form A Mechanical Relay												
Loading	5A @ 250VAC/30VDC												
	is (D01+, D01-, D01+, D02-)												
Туре	Form A Solid State Relay												
Isolation	Optical												
Max. Load Voltage	30VDC												
Max. Forward Current	50mA												
	nmental Conditions												
Operating Temperature	-25°C to 70°C												
Storage Temperature	-40°C to 85°C												
Humidity	5% to 95% non-condensing												
Atmospheric Pressure	63 kPa to 110 kPa												
Pollution Degree	2												
Measurement Category	2 CAT IV 1000V												
	nical Characteristics												
Panel Cutout	138x138 mm												
Unit Dimensions	144x144x129 mm												
	144x144x129 mm 52												
IP Rating	JZ												

Designed For Reliability

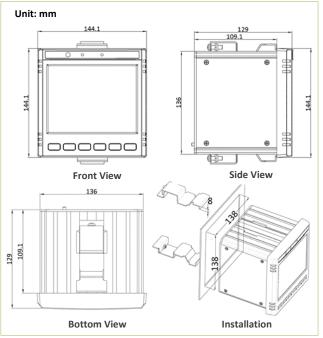
Typical Wiring 311 ן וונ 111 112 121 00 131 132

141 142

Device Views and Mounting Diagram

CTS orting Block

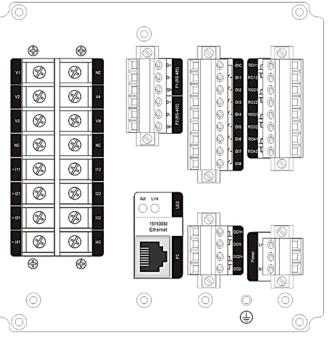
3P4W, no PT, 4CTs



Rear Panel

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LOAD





iMeter 7 Advanced Power Quality Analyzer

Front Panel User Interface



Main Menu







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EN50160 Report

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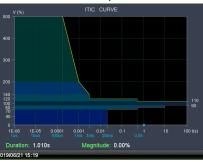
Real-Time WF Capture



SOE Log

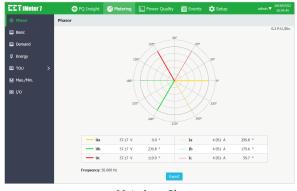
		OL LOS				
Setup						
Basic	-Wiring			DEMO 🔻	,	
Algorithm	Composite I				÷	
DMD&Energy	CT Polarity	Mo	ore :		and the second	
Comm.						
PQ 1						
PQ 2	Ull Nominal	100		l Nominal	5	
Motor Test	PT Primary	100		PT Secondary	5 100	
Record	CT Primary		v A	CT Secondary	5	
I/O	U4 Primary	100		U4 Secondary	100	
Clock	I4 Primary		Å	I4 Secondary	5	
-						
2019/06/03 15:41						

Basic Setup



ITIC Curve

Web Interface

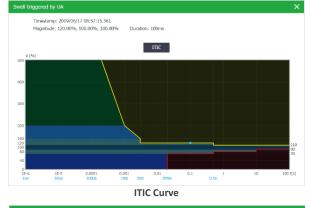


Metering-> Phasor



PQ Insight-> Real-Time Waveform

Designed For Reliability

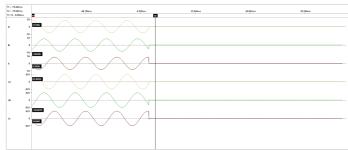




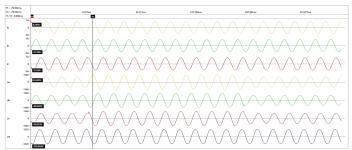
SEMI F47 Curve



WFR Examples at Different Resolutions



Interruption Event @ 1024 samples/cycle x 10 cycles



Swell Event @ 512 samples/cycle x 20 cycles

11 : -99.921ms 12 : -99.921ms 11-12 : 0:000ms					10				n sy	544								2	a ja	des.								40	456+	16								604.	461	6								784.5	dàre						
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ы	1184	A	A	Λ	A	Λ	A	A	ſ	ſ	V	V	V	V	l	Ą	A	Ŋ	ſ	V	V	V	Ŋ	A	A	A	A	A	A	ſ	ſ	V	V	V	V	ſ	A	A	A	ſ	V	V	V	V	Ą	A	A	ſ	ſ	V	V	V	V	A	ſ

Dip Event @ 256 samples/cycle x 40 cycles

RMSR Examples for Different Events



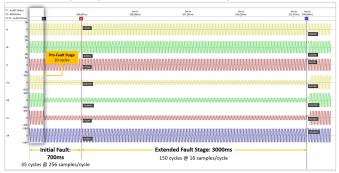
RMSR Triggered by a Dip Event



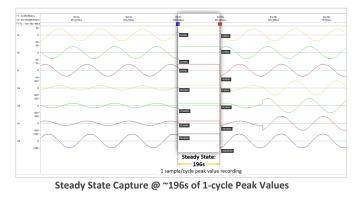
RMSR Triggered by a Swell Event

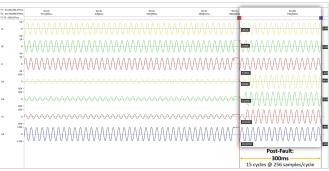
iMeter 7 Advanced Power Quality Analyzer

DWR Example of a 199.70 seconds Dip Event



Initial Fault @ 256 x 35 cycles and Extended Fault @ 16 x 150 cycles





Post Fault Capture @ 256 samples/cycle x 15 cycles



RMSR Triggered by a 220ms Interruption Event



RMSR Triggered by a Transient Event

Designed For Reliability M

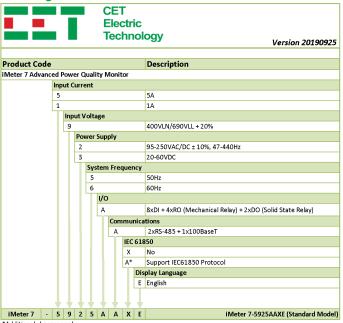


Standards of Compliance

Standards of Con	npliance								
	Safety Requ	irements							
CE LVD 2014 / 35 / EU		EN 61010-1: 2010							
		EN 61010-2-030: 2010							
Electrical Safety In low Distribution Systems u 1000Vac and 1500 Vdr	ip to	IEC 61557-12: 2018 (PMD)							
Insulation	C								
		IEC 62052-11: 2003							
AC Voltage: 2kV @ 1 n	ninute	IEC 62053-22: 2003							
Insulation Resistance:		EN 61010-1: 2010							
Impulse Voltage: 6kV,	1.2/50µs								
	Mechanica	al Tests							
Vibuation Test	Response	IEC 255-2-1:1989							
Vibration Test	Endurance	IEC 255-2-1:1989							
	Response	IEC 255-2-2							
Shock Test	Endurance	IEC 255-2-2							
Bump Test		IEC 255-2-2							
	EMC Comp	atibility							
CE EMC Dire	-) / EU (EN 61326: 2013)							
	Immunity (El								
Electrostatic Discharge		EN 61000-4-2: 2009							
		EN 61000-4-3: 2006+A1:							
Radiated Fields		2008+A2: 2010							
Fast Transients		EN 61000-4-4: 2012							
Surges		EN 61000-4-5: 2014+A1: 2017							
Conducted Disturbanc	es	EN 61000-4-6: 2014							
Magnetic Fields		EN 61000-4-8: 2010							
Voltage Dips and Inter	ruptions	EN 61000-4-11:2004+A1: 2017							
Ring Wave		EN 61000-4-12:2017							
	Emission (EN								
Limits and Methods of									
Measurement of Elect									
Disturbance Character	-	EN 55011: 2016							
Industrial, Scientific ar	nd Medical	···· · ·							
(ISM) Radio-Frequency	y Equipment								
Limits and Methods of	f								
Measurement of Radio	0	EN EE022, 2015							
Disturbance Character	istics of	EN 55032: 2015							
Information Technolog	gy								
Equipment									
Limits for Harmonic Cu									
Emissions for Equipme	ent with	EN 61000-3-2: 2014							
Rated Current ≤16 A									
Limitation of Voltage F									
and Flicker in Low-Vol		EN 61000-3-3: 2013							
Systems for Equipmen	it with Rated								
Current ≤16 A									
Emission Standard for									
		EN 61000-6-4: 2007+A1: 2011							
Environments	Industrial	EN 61000-6-4: 2007+A1: 2011							
	Industrial Power Q								
Voltage Characteristic	Industrial Power Q s Of	uality							
Voltage Characteristic Electricity Supplied by	Industrial Power Q s Of								
Voltage Characteristic Electricity Supplied by Distribution Systems	Industrial Power Q s Of Public	uality							
Voltage Characteristic Electricity Supplied by Distribution Systems General Guide on Harr	Industrial Power Q s Of Public monic And	uality							
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Ordering Guide

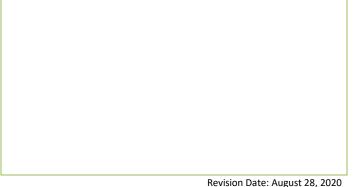


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