

Reliable Power System

Reliable Electrical Solutions



Reliable Power System

- **Reliable Power System**
- The Company is highly capable & experienced to Design, Engineering, supply of Electrical solution(LT Panels,MCC PCC, Synchronization Panel , VFD Panels),Process Instrumentation & Automation Solutions in Process Applications, Lighting Solution ,we are constantly searching for the best solution, the optimum service, an even better product to advance our customer.

Reliable Power System

LT, HT Panels



Industrial Automation



VFD Panels



Process
Instrumentation



Lighting Solutions



EV Charging Solutions

Our Offering

PCC



MCC



Synchronization Panel

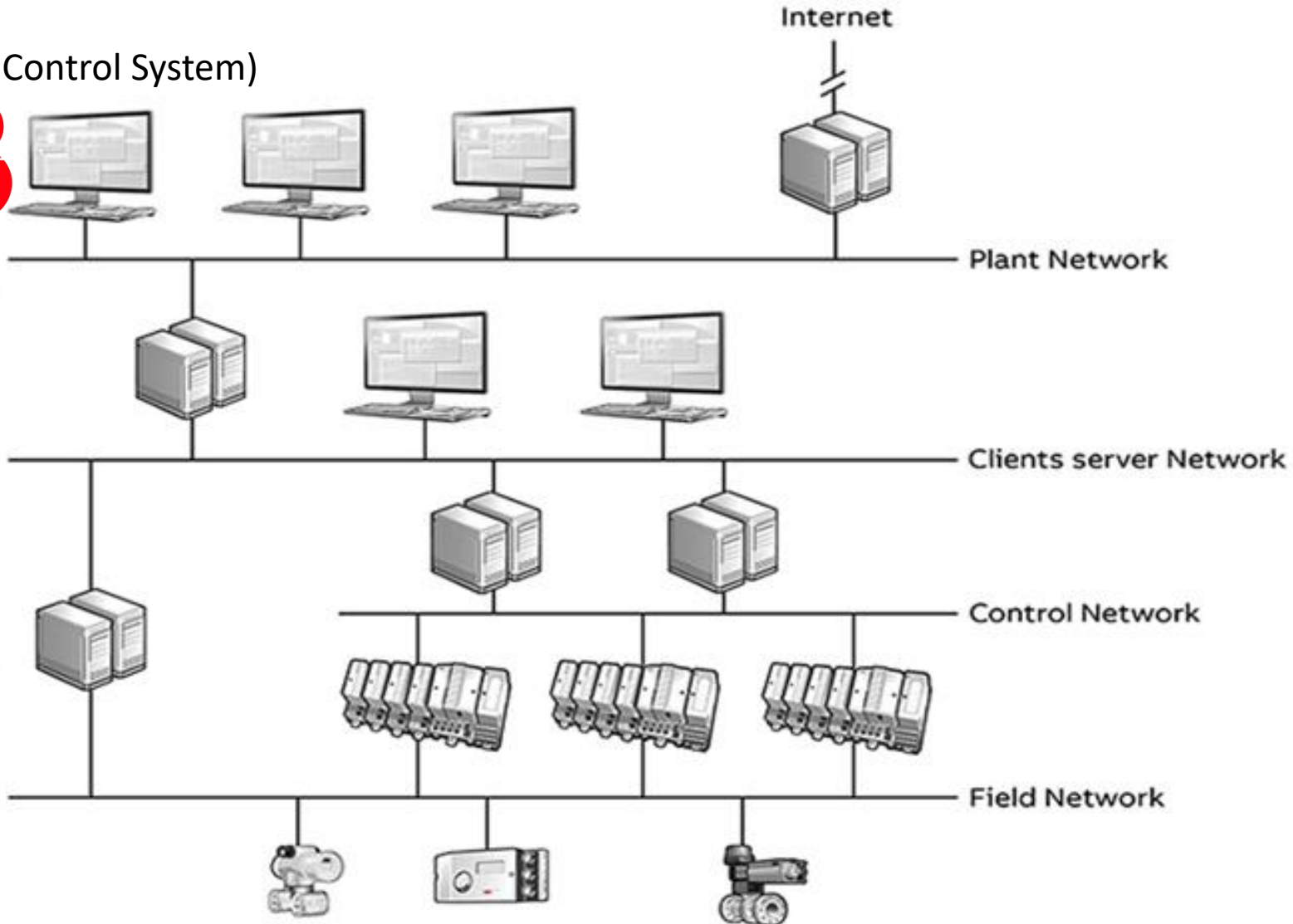


Switchgears



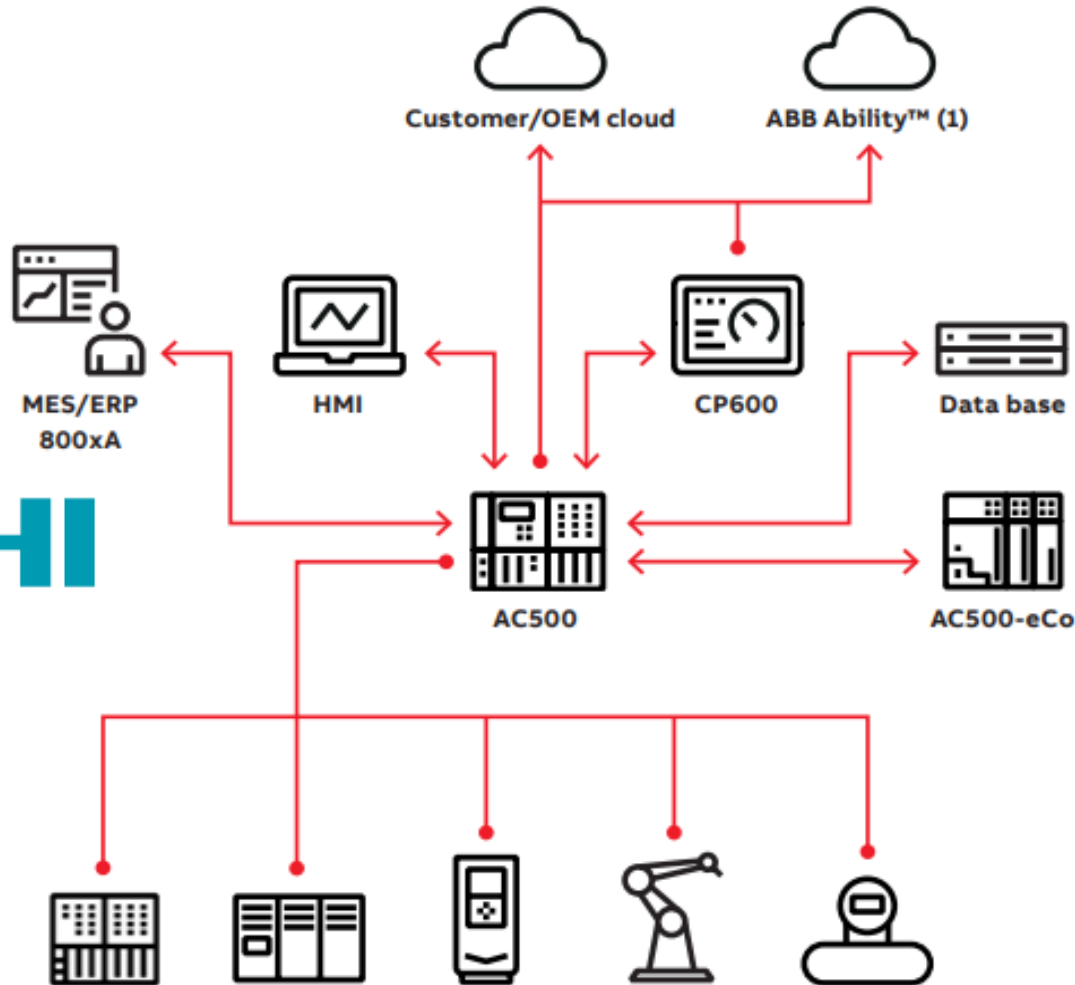
Control Systems

DCS (Distributed Control System)



Reliable Power System

PLC Automation



(1) In preparation

IT network/internet

- MQTT
- OPC UA
- HTTP(S)
- FTP(S)
- SNTP

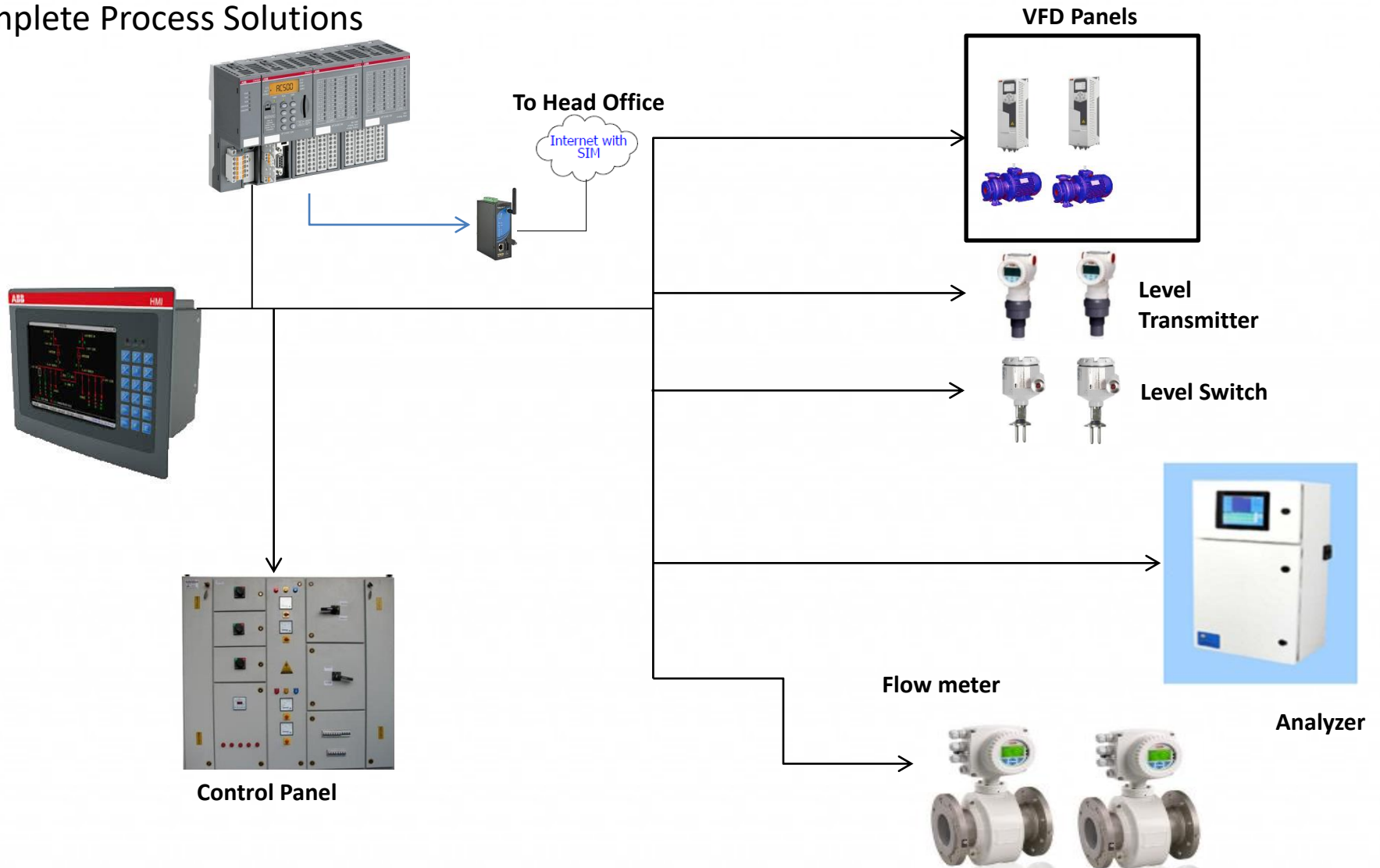
Factory/site network

- OPC DA/AE
- OPC UA
- UDP
- TCP/IP
- KNX
- BACnet
- MySQL / MSSQL
- HTTP(S)
- FTP(S)
- SNTP
- SNMP

Control network

- PROFINET
- EtherCAT
- Modbus TCP
- Modbus RTU
- PROFIBUS DP
- IEC 60870-5-104
- IEC 61850
- CANopen

Complete Process Solutions



Reliable Power System

Variable Frequency Drives

ABB

VEICHI



Reliable Power System

Variable Frequency Drives

ABB

VEICHI



Supply New VFD Panels

And onsite/offsite Complete repairing solutions for ABB, Viechi and Crompton VFDs.





Multi Drive

Supply New Panels of AC
Regenerative Drive of ABB ACS880
Multi Drive

Milling and Centrifugal Applications

Complete Repairing Solutions of
ABB ACS800 and ACS880 AC Drive

Single & Three Module both





DC Drive

Supply New Panels of DC Drive

Milling and Centrifugal Applications

Complete Repairing Solutions of
ABB DCS800 and DCS880 DC Drive



PROCESS INSTRUMENTATION



Reliable Power System

- Pressure measurement
- Flow measurement
- Level measurement
- Temperature measurement
- PH analyser
- Conductivity analyser
- O2 analyser
- Dissolve Oxygen analyser
- Residual chlorine analyser
- Turbidity analyser
- Phosphate Analyser
- COD/BOD/TSS analyser
- Total Nitrogen analyser
- Ammonia analyser
- SPM Analyser
- Sox -Nox CO Analyser
- Positioner
- Control Valve

Pressure Measurement



266HSH

Gauge
Pressure



266DSH

Differential
Pressure



266NSH

Absolute
Pressure



266CSH

Multivariable
Transmitter



266CRH



266HRH



266DRH

With Remote
Seal

‘ABB offers the world’s most comprehensive range of pressure measurement products. The 2600T family provides products specifically designed to meet the widest range of applications.

Reliable Power System

Flow Measurement

Electromagnetic
Flow meter

- FEP 630
- FEP 610
- FEH 630
- FEH 610
- FEP 300
- FEH 300
- Aqua Master
- Water Master
- FSM 4000

Coriolis Mass
Flow Meter

- FCB 400
- FCH 400
- FCB 100
- FCH 100



Thermal Mass
Flow Meter

- FMT 200
- FMT 400

Variable Area
Flow Meter

- FAM3200
- FAM 540
- FAM 541
- FAM 544
- FAM 545
- FAM 546

Vortex
Flow Meter

- FSV 430
- FSV 450

Swirl
Flow Meter

- FSS 430
- FSS 450



Reliable Power System

Temperature Measurement

TTF200-Series (HART)-Field Mounted

TTH200-Series (HART)-Head Mounted

TTR200-Series (HART)-Rack Mounted



1. Electrical isolation 3.5 KV
2. Max. permissible humidity in accordance with IEC 60068-2-30 100 % relative air humidity
3. Stability- 10 year
4. Shock resistance in accordance with IEC 68-2-27) gn = 30, during operation and transport .
5. Sensor(RTD/Thermocouple) wire break detection.
6. Power supply Two-wire technology, polarity safe; power supply lines = signal lines
7. Long-term drift: ± 0.05 °C (± 0.09 °F) or ± 0.05 %* per year.

266 multivariable transmitters flow measurement



1. Modular Electronics
2. Differential pressure measurement with high accuracy of 0.075 %
3. Highest accuracy is achieved through **Dynamic flow correction** with continuous calculation of **Reynold's number** and **flow coefficient**
4. Mass flow measurement with dynamic compensation.
5. ABB is the **first instrumentation company** able to offer on its HMI (Human Machine Interface) the Through-The-Glass technology (TTG)
6. PILD: Plugged Impulse Line Diagnostic as standard
7. SIL-2
8. **Integrated totalizer.**

O2 Analyzer:

Zirconia Oxygen Analyser from ABB, Model AZ20

- Withstands process temp. up to 800 Deg. C
- Accuracy < $\pm 0.75\%$ of reading or 0.05% O₂, whichever is the greater
- Response time < 10s
- Easy set-up and calibration through builtin through-the-glass keypad



EV fast Charging Station-ABB:



Terra AC Wall Box

6 to 8 Hours charging
Time for home, Office
,Parking etc.

Up to -22KW-32 A
With all connectivity to
Link payment if required



DC fast Charger terra 54,124,184
1 to 3 Hours charging
Time for High way Service
Stations , Parking etc.

Up to -50KW-63 A
With all connectivity to
Link payment if required



—
175 kW
375 A
150-920 V_{DC}

DC Ultra fast Charger Terra HP

10 to 20 Mins charging
Time for High way Service
Stations , Parking etc.
Up to -350KW-2X500 A
With all connectivity to
Link payment if required

EV fast Charging Station: AC Type 2 for Home , Society and hotels

TECHNICAL SPECIFICATIONS



Charging Time
2 to 6 Hr ranges

Parameter	Characteristic	AC Type2 Chargers	
Input Power	Rated Power	7.2 kW	22 kW
	Input voltage	230V AC, Single phase	415V AC, 3 phase
Output Power	Number of Output	1 or 2	1 or 2
	Output current	0-32A	0-32A per phase
	Output Charging Outlet	IEC62196 Type2	IEC62196 Type2
	Output voltage	230V AC	230V AC
User Interface and Controls	Display	4.3"HMI LCD Display (Optional)	4.3"HMI LCD Display
	Push Button	Emergency Stop	
	User Authentication	RFID + OCPPv1.6	
User Interface and Controls	Ambient Temperature	-20°C to 55°C	
	Storage Temperature	-40°C to 70°C	
	Altitude	<2000 Mtr	
	Humidity	<95%, Non condensing	
Communication	External	WiFi, RS485, LAN/4G + OCPPv1.6	
	Metering and Billing	Available	
	Charging Operation	Swipe card / Scan code / APP based authentication	
Protection	Input/ Output protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection Grounding protection, Surge protection, Over/Under temperature	
	Mechanical Protection	IP54	
	Cooling	Natural Cooling	
Regulation	As per	IEC 61851-1:2017, IEC 61851-21-2	
	Safety	CE	
	Certification	ARAI	
	Mounting	Wall / Pole Mount	

Activate Wi
Go to Settings

EV fast Charging Station: AC Hybrid for Society and hotels and Public Parking



Charging Time
2 to 6 Hr ranges

Parameter	Characteristic	AC Charger - 14kW Hybrid
Input Power	Rated Power	14 kW
	Input voltage	415V AC, 3 phase
Output Power	Number of Output	3
	Output current	0-32A + 0-16A + 0-16A
	Output Charging Outlet	Outlet 1: Type2 IEC 62196 Outlet 2 and 3: IEC 60309 Socket
	Output voltage	230V AC
User Interface and Controls	Display	4.3"HMI LCD Display
	Push Button	Emergency Stop
	User Authentication	RFID + OCPPv1.6
User Interface and Controls	Ambient Temperature	-20°C to 55°C
	Storage Temperature	-40°C to 70°C
	Altitude	<2000 Mtr
	Humidity	<95%, Non condensing
Communication	External	WiFi, RS485, LAN/4G + OCPPv1.6
	Metering and Billing	Available
	Charging Operation	Swipe card / Scan code / APP based authentication
Protection	Input/ Output protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection Grounding protection, Surge protection, Over/Under temperature
	Mechanical Protection	IP54
	Cooling	Natural Cooling
Regulation	As per	IEC 61851-1:2017, IEC 61851-21-2
	Safety	CE
	Certification	Not Applicable
	Mounting	Wall / Pole Mount

EV fast Charging Station: DC CCS2 FAST Charge Society and hotels and Public Parking & Stations



Our DC CCS2 fast chargers are suitable for fast charging EV cars such as Tata Nexon, MG ZS, Hyundai Kona, Hyundai Ioniq, NETA, Mercedes Benz EQC, BMW i3 and Kia EV6 etc. These are ARAI certified, OCPP compatible, available in single and dual gun wall / floor mounted models with ratings from 30kW to 240kW.

Charging Time 40 Min to 2 Hr ranges

Reliable Power System

Metal & Mining



Real Estate



Water



Sugar



Solar



Power Plants



Reliable Power System



Thank You

Reliable Power System

Near Indian Oil Petrol Pump

Koiriya Tola, Raxaul, East Champaran, Bihar

Contact- +91 9430471064, 9472841805

Mail ID- info@reliablepowersystem.in

Website- www.reliablepowersystem.in

Branch Office

Reliable Power System

Bhotebahal, Kathmandu, Nepal

Mail ID: sales@reliablepowersyste.in

Contact- +91 8540989177

Branch Office

Arktos Control & Instruments

404, Haldauni, Greater Noida

Gautam Budha Nagar-201308

Uttar Pradesh, India

Mail ID-sales@arktosinstruments.com

Contact- 8800339357